

ANSMANN

PRODUCTS



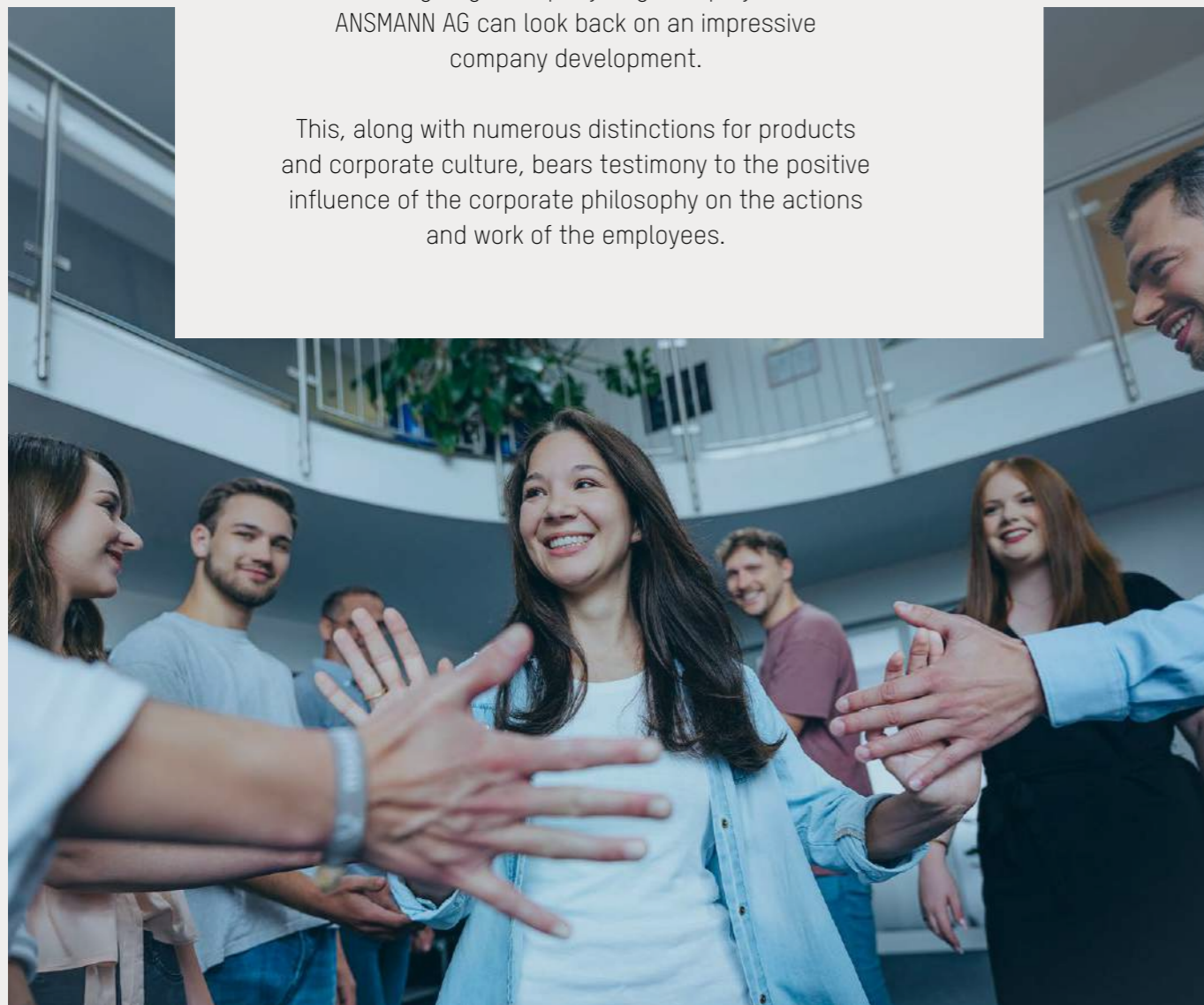
ANSMANN

ANSMANN

IT ALL STARTED IN A GARAGE

From garage company to global player -
ANSMANN AG can look back on an impressive
company development.

This, along with numerous distinctions for products
and corporate culture, bears testimony to the positive
influence of the corporate philosophy on the actions
and work of the employees.



 OVER **30**
YEARS Experience in
**RESEARCH &
DEVELOPMENT**



**TEST
WINNER**

& price-performance
champion

OVER **100**
DISTINCTIONS



OVER **400**
EMPLOYEES

7

Subsidiary
companies

**THROUGHOUT
THE WORLD**

China, Hong Kong,
UK, Nordics, France



 **PROCESSED**
CELLS
per year

>28
Million

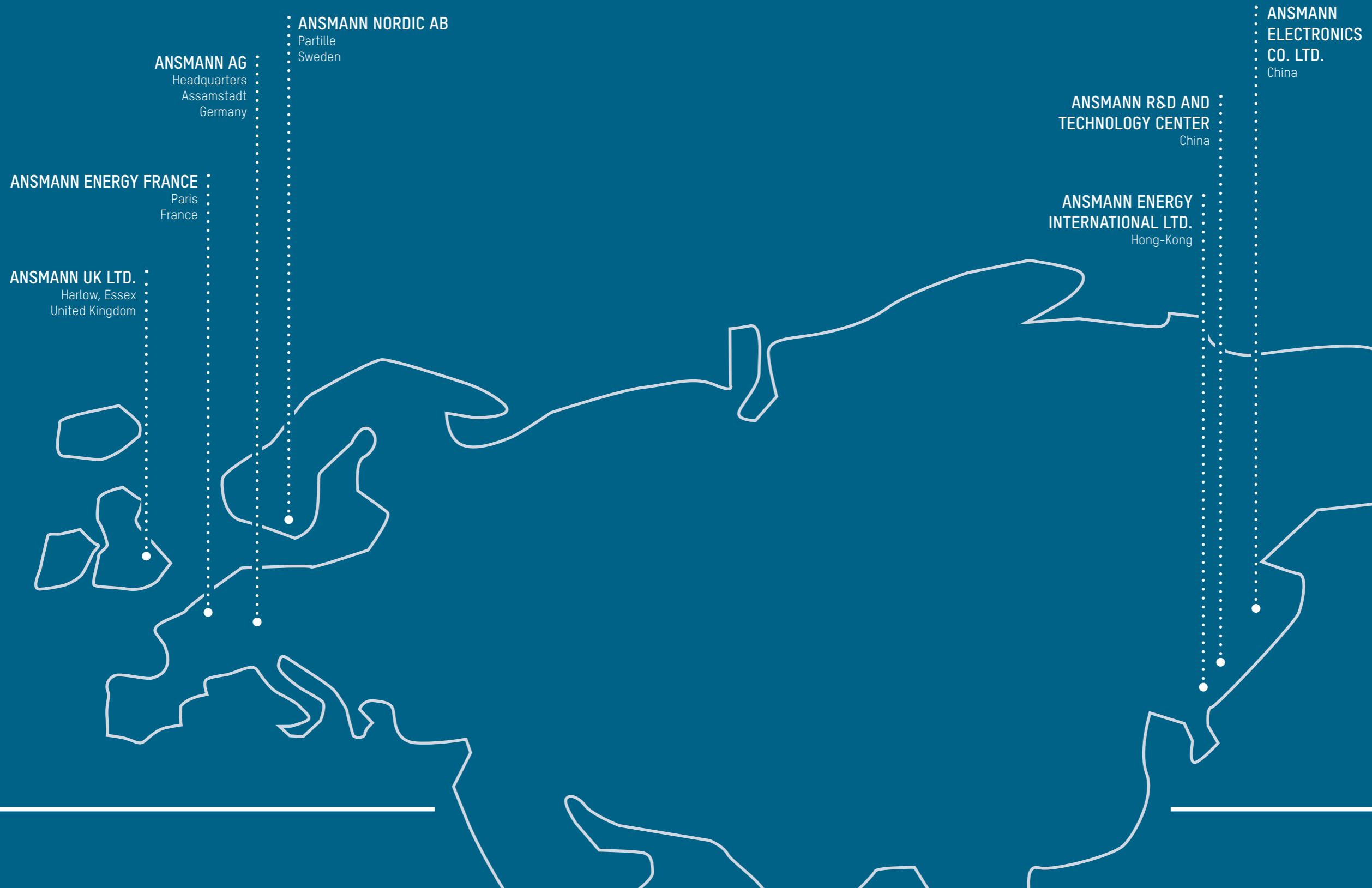
WE ARE THE

MARKET LEADER

WORLDWIDE

fast and flexible

The best product is of little use when it does not arrive with the customer on time.



Our technology YOUR BRAND

We analyse the market for you as OEM customer and provide you with recommendations for possible potential as well as the needs of your target group. On this basis, we develop a range suggestion tailored to your customers to build or develop your own private label. Take advantage of our efficient processes and short "Time-to-market".



Guidance

- 1 Our comprehensive range offers many opportunities and options. Together we will discuss which products could assist you further and specify the first technical solutions even at this early stage.



Proposal

- 2 We will create a proposal containing all important data, minimum quantities, costs and delivery times. All of the facts at a glance.



Technology

- 3 You can find out everything about your desired product from us. From technical data and dimensions to weight and accessories: everything that is important to you.



Product Design

- 4 With us, your products will not just have your own label, but rather will be in your own design - products that are clearly identifiable as your brand. Incomparable, unique! So, you are unique in the market.



Packaging

- 5 Don't leave the first impression to chance: we can support you with the packaging design - based on your corporate design if you prefer, or on a meaningful template product.



Operating manual

- 6 We create your operating instructions to precisely match your needs. Starting with professionally translated text though to fonts and layouts aligned with your design requirements.



Logistics

- 7 We would be delighted to align ourselves with your processes and requirements. We can implement your specifications or provide suggestions to support your existing product range for optimised boxing and palletising.



After-sales services

- 8 Congratulations! The first project has been successfully completed, but what happens next? We focus on long-term cooperation. If legal changes are pending, we are your first point of contact.

IN 8 STEPS TO YOUR OWN PRIVATE LABEL

Our solution for YOUR MARKET

The majority of purchasing decisions are still made directly at the point of sale. Secondary placements serve to influence the consumer's decision at the POS and generate an unplanned purchase through an appealing special offer. They are therefore an effective, sales-promoting retail tool.

EXPERTISE IN SECONDARY PLACEMENTS

Sales increases of up to 20% can be achieved with our customised display concept

The purchase of accessory products such as batteries, rechargeable batteries and USB accessories is strongly impulse-driven

The majority of sales are generated with secondary placements, especially in the case of disposable batteries and rechargeable batteries

Displays are designed to encourage customers to buy. They should therefore be placed in heavily frequented zones or in the checkout area

ANSMANN products also sell extremely well as cross-selling products on the shelf with other related products



1

Highly frequented areas

Floor displays, centre room displays and basket displays are suitable for areas at the entrance, near checkouts and in main aisles. In these highly frequented zones, customers are encouraged to make impulse purchases.



2

Checkout areas

In this area, customers reach for consumer goods that they hadn't thought of before or that they pick up on impulse. We offer a variety of different display solutions & product assemblies.



3

Cross-selling

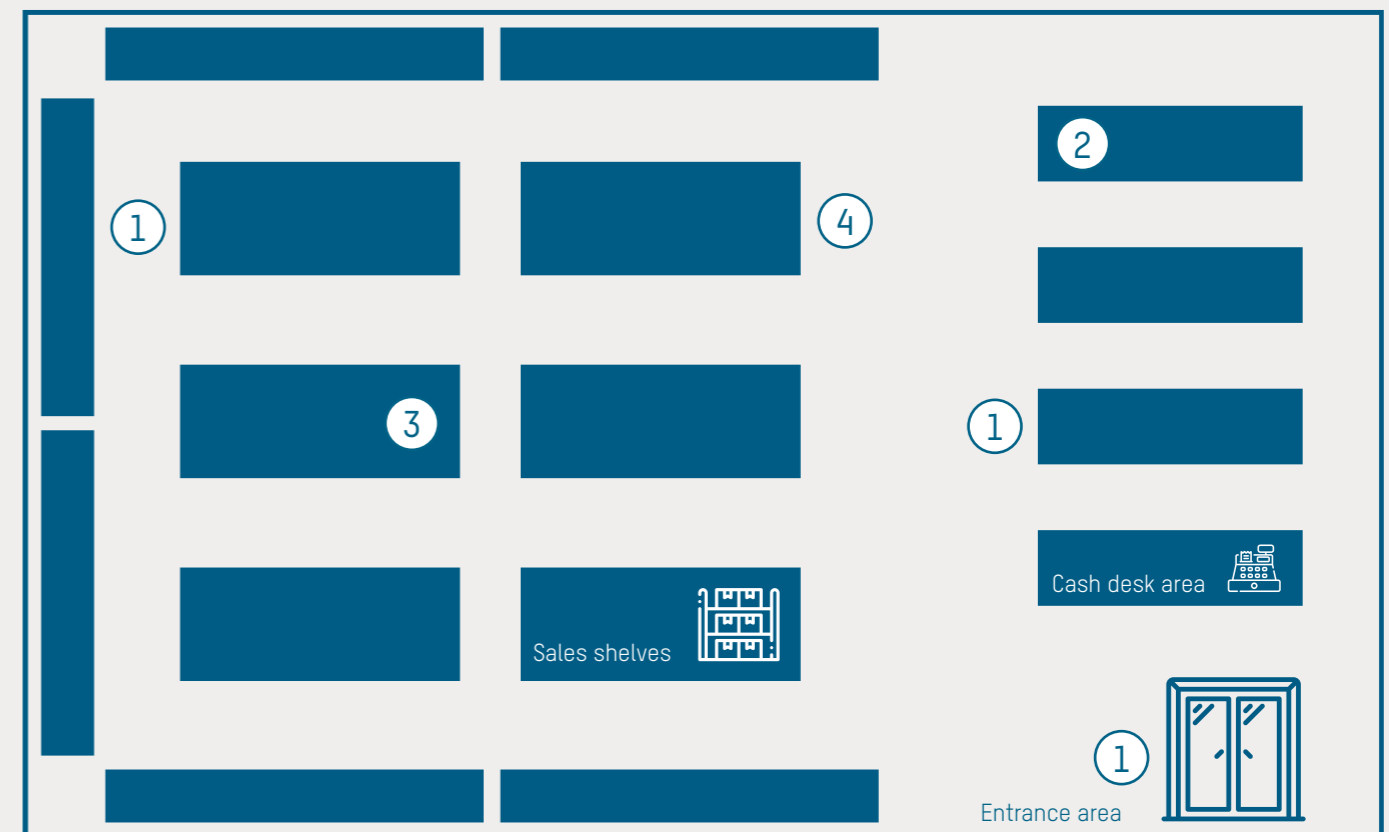
Cross-selling is a very good way to generate additional sales. Our disposable batteries and rechargeable batteries are ideal for placing next to cameras, household appliances and much more.



4

Shop-In-Shop

With our shop-in-shop solutions, we offer customers the full ANSMANN feeling, from explanation to trial. The displays are also supplied pre-equipped on the pallet.



THE RIGHT DISPLAY FOR EVERY SITUATION

CONTENT



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100% CARTON

PACKAGING

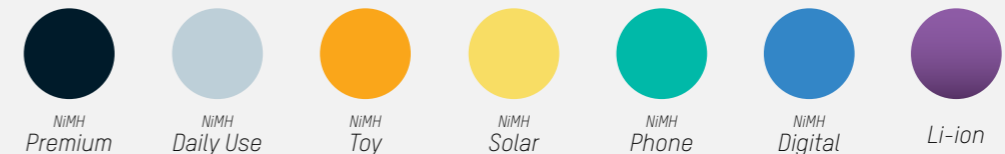
The time has come! We have hit the ground running with our new packaging concept for our rechargeable and non-rechargeable batteries. Our packaging has been given a new, innovative design and is now made from up to 100% recyclable cardboard. The new packaging stands out from the competition in the retail sector and is immediately recognisable.

OUR NEW PACKAGING CONCEPT



COLOUR OVERVIEW

Rechargeable Batteries



Batteries



The different colour accents in combination with our well-known ANSMANN blue harmonise perfectly and show the consumer the different product groups and application areas of the rechargeable batteries and disposable batteries at a glance.

RECHARGEABLE BATTERIES



Little everyday heroes with **POWER**

Our rechargeable batteries in the classic standard sizes are the ideal energy storage solution for a wide range of applications. ANSMANN rechargeable batteries are durable and robust. From the entry-level to the high-performance range, the ANSMANN range offers the right rechargeable battery solution for everyone.

HIGH-CAPACITY

PREMIUM BATTERY

Professionals and frequent users like to use rechargeable batteries with the highest capacity - up to 2850 mAh for Mignon AA batteries. The cells are developed in such a way that they can release large amounts of energy in a short time. This is important in camera flashes or measuring equipment, for example. They are also the ideal choice for GPS devices & torches - for the longest possible runtime.



MOST COMMON AREAS OF APPLICATION



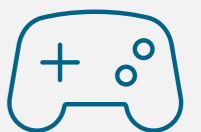
Flash units



Torches



GPS devices



Game controllers

We recommend these batteries primarily for applications with high energy requirements, frequent use or long runtimes.

AVAILABLE CELL SIZES



Micro AAA
HR03



Mignon AA
HR6



Mono D
HR20

All technical data - see page 212

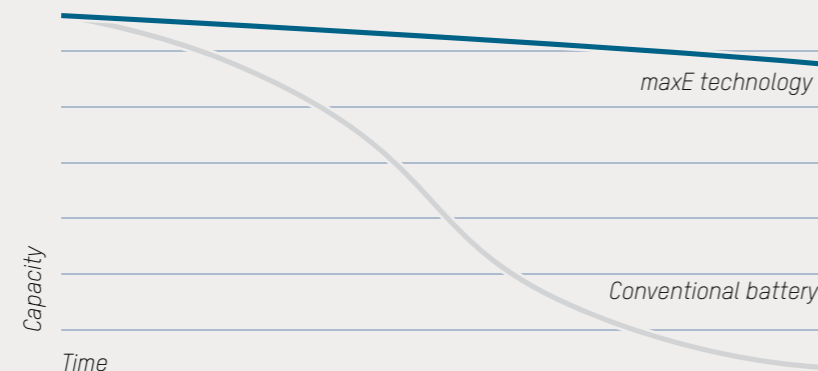
MaxE

PREMIUM & DAILY USE BATTERY —

Batteries with maxE technology are the ideal solution for demanding everyday users: MaxE batteries combine high capacity with very low self-discharge. After one year of storage, around 80% of the initial capacity is still available.



SELF-DISCHARGE 1 YEAR



MOST COMMON AREAS OF APPLICATION



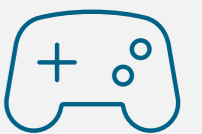
Alarm clock



Baby monitors



Wireless mouses



Game controllers

DAILY USE

Long-lasting battery with the best cycle stability

PREMIUM

Battery with the perfect mix of performance and cycle stability

AVAILABLE CELL SIZES



Micro AAA
HR03



Mignon AA
HR6



Baby C
HR14



Mono D
HR20



E-Block
6HR61

All technical data - see page 212/213

SPECIAL

HIGH-CAPACITY & MAX E BATTERY —

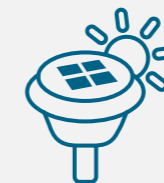
The performance of the special rechargeable batteries is precisely tailored to the specific requirements of their areas of application in order to offer maximum efficiency and longevity. This ensures that each device is optimally supported and that the power supply always meets the specific requirements.



AREAS OF APPLICATION



Toys



Solar lamps



DECT telephones



Flash units

TOY

Consistently high power and impressively high performance

SOLAR

Rechargeable battery optimised for use in solar lights

PHONE

Rechargeable battery optimised for the "Phone" application area

DIGITAL

Lots of power in a short period of time thanks to high peak current

AVAILABLE CELL SIZES



Micro AAA
HR03



Mignon AA
HR6

All technical data - see page 214

LI-ION BATTERIES

PREMIUM RECHARGEABLE

The ANSMANN Li-Ion rechargeable batteries offer an excellent alternative to disposable batteries and have an integrated USB-C charging port, which means that no additional battery chargers are required.

1.5 V LI-ION BATTERIES

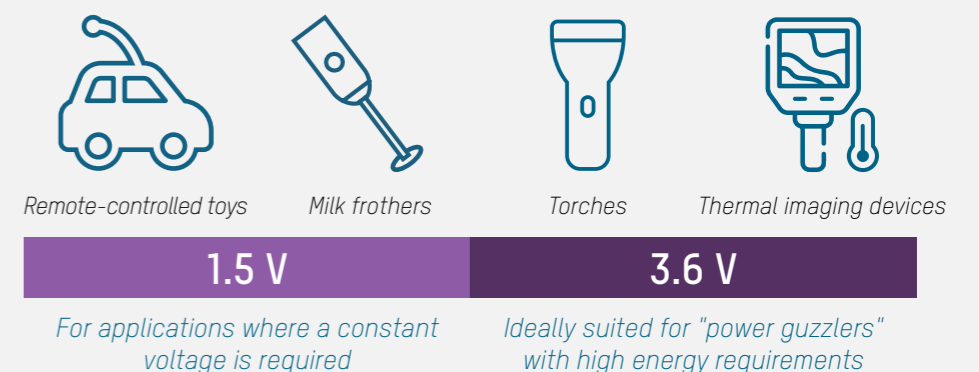
The Li-Ion rechargeable batteries are particularly impressive with a stable output voltage of 1.5 V over the entire period of use. This means that the voltage is significantly higher than with 1.2 V NiMH rechargeable batteries and is also always constant and does not drop as with alkaline batteries.

3.6 V LI-ION BATTERIES

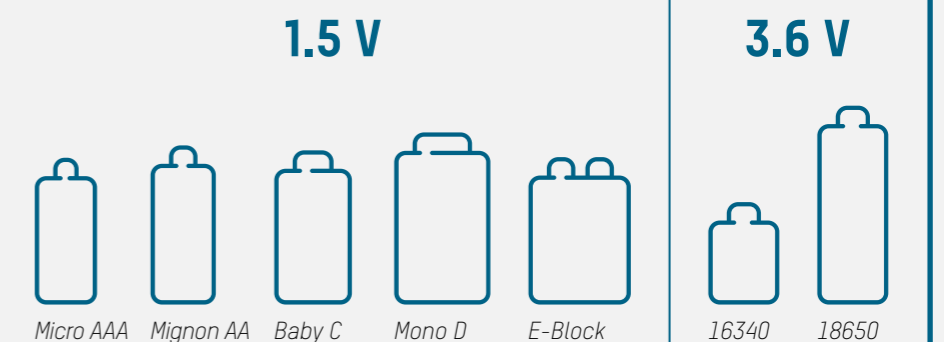
Compared to conventional NiMH rechargeable batteries, Li-ion technology has almost twice the energy density with the same size.



MOST COMMON AREAS OF APPLICATION



AVAILABLE CELL SIZES



All technical data - see page 215

CAMERA BATTERY

PACKS

The persuasively high quality LITHIUM ION RECHARGEABLE BATTERY PACKS are the perfect energy source for your camera. The high capacity and particularly long service life of ANSMANN rechargeable batteries ensure greater enjoyment of energy-intensive technology.



NUMEROUS PROTECTIVE FUNCTIONS



Overcharging
protection



Deep discharge
protection



Overvoltage
protection



Short-circuit
protection

In addition to the excellent price-performance ratio, the rechargeable batteries are particularly impressive thanks to their perfect fit and up to 5-year guarantee!

COMPATIBLE
WITH THE MOD-
ELS OF THE
FOLLOWING
**MANUFAC-
TURERS**

Canon CASIO FUJIFILM Nikon

OLYMPUS Panasonic PENTAX SONY

All technical data - see page 216/217

BATTERIES



Versatile athletes

There are many applications where a rechargeable battery is not the optimal solution. Whenever the application can be operated with one set of batteries for longer than six weeks at a time, the disposable version is worthwhile. With ANSMANN batteries you are opting for longevity and endurance at the highest level.

REDLINE

ALKALINE

The ANSMANN REDLINE ALKALINE battery is the ideal power source for standard everyday appliances. It is ideal for the price-orientated consumer and is available in the standard "Big 5" sizes.



MOST COMMON AREAS OF APPLICATION



Remote controls



Wall clocks



Radios

We recommend these ALKALINE batteries above all for applications with long-term use, without frequent replacement.

AVAILABLE CELL SIZES



Micro AAA
LR03



Mignon AA
LR6



Baby C
LR14



Mono D
LR20



E-Block
6LR61

All technical data - see page 218

X-POWER

ALKALINE

The ANSMANN X-POWER ALKALINE battery is the ideal energy source for demanding applications with high energy requirements. The X-POWER shines with high reliability and a long service life.



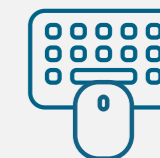
MOST COMMON AREAS OF APPLICATION



Torches



Remote-controlled toys



Mouse & keyboard

We recommend the X-POWER Premium batteries especially for applications with high power and high demands.

AVAILABLE CELL SIZES



Mini AAAA
LR61



Micro AAA
LR03



Mignon AA
LR6



Baby C
LR14



Mono D
LR20



E-Block
6LR61

All technical data - see page 218

EXTREME

LITHIUM

ANSMANN EXTREME LITHIUM batteries offer many times more power than a standard battery. They are extremely insensitive to large temperature fluctuations and can be stored for an extremely long time. They are also around 35% lighter than normal alkaline batteries of the same size.



MOST COMMON AREAS OF APPLICATION



Extremely
temperature-resistant



Flash units



Radio equipment

We recommend the EXTREME LITHIUM batteries especially for applications with high performance at extreme temperatures.

AVAILABLE CELL SIZES



Micro AAA
FR03



Mignon AA
FR6



E-Block
ER9V

All technical data - see page 219

LITHIUM

THIONYL CHLORIDE

The LITHIUM THIONYL CHLORIDE BATTERIES are a reliable power source for a wide range of applications, from night vision devices and back-up systems to medical equipment and industrial electronics. They have a low internal resistance, which means they are ready for use more quickly. The batteries also offer a long shelf life and can be used at extreme temperatures of -55 - 85°C.



MOST COMMON AREAS OF APPLICATION



Measuring devices



Monitoring systems



Alarm systems

We recommend LITHIUM THIONYL CHLORIDE BATTERIES primarily for industrial applications.

AVAILABLE CELL SIZES



1/2AA
ER14250



AA
ER14505



A
ER17500



C
ER26500



D
ER34615

All technical data - see page 219

BUTTON CELLS

ANSMANN offers a wide range of button cells and speciality batteries. These include various lithium, alkaline or silver oxide batteries for a wide range of applications as well as lithium photo batteries for classic analogue cameras or torches.



MOST COMMON AREAS OF APPLICATION



Cameras



Vehicle keys



Garage doors



Wristwatches



Scales



Pocket calculators

AVAILABLE CELL TYPES



Button cells



Round cells



2CR5

All technical data - see page 222/223

HEARING AID CELLS

Modern hearing aids are powered by tiny zinc-air batteries. ANSMANN offers the four most popular sizes in practical blister packs of 6 with secure individual removal. The outstanding quality of our hearing aid cells has been tested by LGA and awarded a prize by Stiftung Warentest.



WORTH KNOWING

LONGER SERVICE LIFE

Remove the protective film just before use and leave to rest for 1 minute

Storage at room temperature

Open the battery compartment when the hearing aid is not in use

Leave the battery for 1 minute after removing the protective film and then insert it into your hearing aid.

AVAILABLE CELL SIZES



675
PR44
1.45 V



13
PR48
1.45 V



312
PR41
1.45 V



10
PR70
1.45 V

All technical data - see page 223

TESTER

RECHARGEABLE BATTERIES & PRIMARY BATTERIES

Is the battery still OK or does it need to be replaced? The test devices from ANSMANN provide reliable information about the charge status of your rechargeable batteries and disposable batteries. This helps you to sort out dead cells or cells that are too old.



ENERGY CHECK LCD

Compact and user-friendly tester for checking the energy content of the most common rechargeable and disposable batteries

Energy content (in 10% increments) and voltage (in volts)

Simple measurement with the help of a test probe or by simply pressing it onto the designated spot.

The cells can be reliably tested in the tester within seconds

High quality LCD display

Part No. 1900-0100



WHICH BATTERIES CAN BE TESTED?

Lithium button cells	Lithium photo batteries	Alkaline button cells	Zinc-air button cells	Alkaline & lithium batteries	NiCd-NiMH batteries	Li-ion batteries
e.g. CR 1025 CR 1620	e.g. CR 2 CR 123 A	e.g. LR 43 LR 54	e.g. 675 13	e.g. AAA 9 V	e.g. AA C	e.g. 18650 26650

All technical data - see page 221

BATTERY TESTER



Alkaline round cells



Various NiMH batteries

Suitable for round cells and 9 V blocks

Digital display of the remaining voltage

Display: good, low, replace

Part No. 4000001

POWER CHECK

Car tester for testing 12 V car batteries

Precise check of the charge status

Precise check of the car battery's readiness to start

Detects faulty car batteries

Carrying out a load test on the car battery

Part No. 4000002



Car batteries



All technical data - see page 221

ENERGY CHECK

Energy Check to check the battery voltage

Monitoring of 12 V or 24 V batteries of the alternator or charge controller

Easy handling thanks to car adapter

Current measured output voltage of the vehicle battery accurate to 0.1 V

Very bright, high-quality LED display

Part No. 1900-0019



Car batteries



COIN CELL TESTER

Suitable for alkaline and lithium button cells

Automatic detection of voltage (alkaline or lithium)

Capacity display via 5 LEDs

Includes CR-1620 button cell for operating the test device

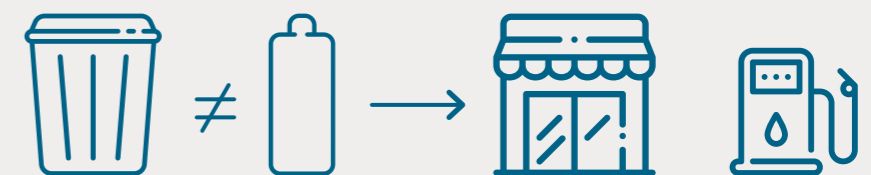
Part No. 1900-0035



Alkaline button cells



DEAD BATTERIES
WHERE TO PUT THEM?



Batteries and rechargeable batteries should never be disposed of with household waste!

Put the empty batteries next to your shopping bag so you can take them with you the next time you go shopping.

This is because small green boxes are usually available for disposal in the supermarket checkout area.

Further drop-off points:
Supermarkets, department stores, electrical shops, petrol stations

BOXES

RECHARGEABLE BATTERIES & BATTERIES

With the practical storage boxes from ANSMANN, you have your rechargeable batteries together, organised and protected at all times! This means you always have the right battery to hand at home and when travelling.



WHICH
CELLS
CAN BE
STORED?



Alkaline
Micro AAA



Alkaline
Mignon AA



Alkaline
E-Block



Rechargeable battery
Micro AAA



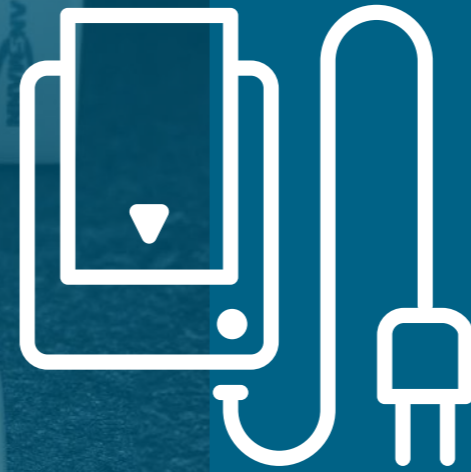
Rechargeable battery
Mignon AA



Rechargeable battery
E-Block

All technical data - see page 221

CHARGERS



Gentle & fast charging

Rechargeable batteries are only as good as the care they receive. This old principle applies more than ever in the age of Li-Ion and NiMH batteries. The perfect charger maintains, cares for and protects your battery while charging reliably and quickly. We are confident in our products and so we grant an extended manufacturer's warranty of 3 years on our chargers.

PROFES- SIONAL

FEATURES



OVERCHARGING PROTECTION

Rechargeable batteries are sensitive energy storage devices. They want to be cared for and treated well so that they can be used for as long as possible. This also means that they are not charged for too long. ANSMANN chargers analyse the charge level and stop charging as soon as the battery is full.



MAINTENANCE CHARGING

Once the charging process has been successfully completed, the ANSMANN chargers automatically switch to trickle mode. The charger maintains the battery's full state of charge with short charging pulses.



DISCHARGE MODE

Rechargeable batteries with NiMH technology have almost completely eradicated the "memory effect". However, to be completely safe, the Powerline 4.2 Pro, 5 Pro and 8 chargers can completely discharge your battery once with the discharge mode before charging.



CAPACITY TEST

Would you like to know how much of its original capacity your battery can still deliver? The Powerline 4.2 Pro and 5 Pro chargers test the real available capacity of your batteries in a multi-part capacity analysis.



QUICK CHARGE MODE

With Powerline 4.2 Pro and 5 Pro, the charge current can be selected manually beforehand via the function buttons enabling the round cells inserted to be charged with up to 1800 mA in the quick-charge process.



PROTECTIVE FUNCTION

Several interconnected systems protect the inserted batteries from overheating and overcharging. So you can sit back comfortably while your battery is being recharged to full capacity.

Universal, simply an all-rounder

The Powerline 4.2 Pro is the perfect combination of universal charger and test station. Comprehensive and extremely useful functions to meet the demands of professional users in commercial and private application and all this at an unbeatable price-performance ratio.



Individually selectable charging programs:
Charge, Discharge, Refresh, Test

Charge current can be individually set for
each charge bay (400 mA - 1800 mA)

Display of all relevant parameters via
LCD: charging program, voltage, capacity,
time, current

Monitoring the charge level of each
individual rechargeable battery

Rechargeable battery fault detection,
reverse polarity protection, overcharge
protection, pulse maintenance charging

Part No. 1001-0079



POWERLINE

4.2 PRO

* Charging time for Mignon AA 1000 mAh
All technical data - see page 224

POWERLINE

POWERLINE 5 PRO

Individually selectable charging programs:
Charge, Discharge, Refresh, Test

Charge current can be individually set for each charge bay
(400mA - 1800mA)

Display of all relevant parameters via LCD: charging program,
voltage, capacity, time, current

Monitoring the charge level of each individual rechargeable
battery

Battery defect detection, reverse polarity protection, multiple
overcharge protection and automatic changeover to pulse
maintenance charging

Part No. 1001-0018

NiMH
AAA, AA,
C, D, E (9 V)



0.6 h*



100-240 V AC,
12 V car



POWERLINE 8

Discharge function selectable

Indication of the rechargeable battery status via a multicolour
LED for each charge slot

Monitoring the charge level of each individual rechargeable
battery

Battery defect detection, reverse polarity protection, multiple
overcharge protection and automatic changeover to pulse
maintenance charging

Part No. 1001-0006

NiMH
AAA, AA



2.3 h*



100-240 V AC



* Charging time for Mignon AA 1000 mAh All technical data - see page 224

POWERLINE VARIO X



Li-Ion,
Li-Po,
NiMH
AAA, AA



1.2 h*



5 V USB

Universal charger for Li-Ion/Li-Po rechargeable battery packs or 2x Mignon AA or Micro AAA NiMH rechargeable batteries

Automatic voltage and polarity detection for lithium batteries

Moveable contacts for individual adaptation to most Li-Ion/Li-Po rechargeable battery packs

Defective battery detection

Compact and light, ideal for travelling

Part No. 1001-0085

POWERLINE 2

Charging status display via LED

Monitoring the charge level of each individual rechargeable battery

Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic changeover to pulse maintenance charging

Part No. 5107043



NiMH
E (9 V)



1.7 h/
100 mAh



100-240 V AC



ENERGY 16 PLUS



NiMH
AAA, AA,
C, D, E (9 V)

2x USB



1.2 h*



100-240 V AC Part No. 1001-0004

Auto-diagnosis of the inserted rechargeable batteries and automatic start of a pre-charging and/or refreshing process if required

Quick capacity test of the inserted battery

Indication of the rechargeable battery status via a multicolour LED for each charge slot

Monitoring the charge level of each individual rechargeable battery

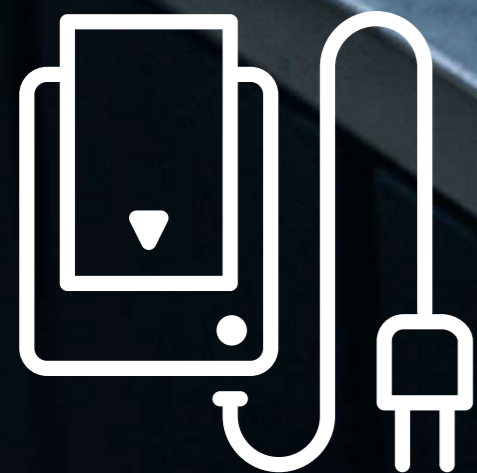
Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic changeover to pulse maintenance charging

All technical data - see page 224

* Charging time for Mignon AA 1000 mAh

BESTER COMFORT

FEATURES



PERFECT 7 CHARGING TECHNOLOGY

The fully automatic 7-step charge process maximises the service life and performance of your rechargeable batteries. The innovative charge process is based on the latest knowledge from rechargeable battery research and takes into account a multitude of different parameters. You can find more information on page 60.



QUICK CHARGE MODE

The COMFORT series from ANSMANN charges your compatible NiMH rechargeable batteries with up to 800 mA in a quick and controlled process. This saves you not only wasted time but also enables you to manage with fewer rechargeable batteries in total.



CAPACITY QUICK TEST

Immediately after being inserted, the quick capacity test determines the residual charge of your rechargeable battery and displays this in the LED panel for 5 seconds. The automatic detection of low-performance rechargeable batteries prevents unpleasant surprises.



PROTECTION FUNCTION

Several interconnected systems protect the inserted batteries from overheating and overcharging. So you can sit back comfortably while your battery is being recharged to full capacity.



Perfect charging is so easy

Thanks to the intelligent "PERFECT 7" charge technology, the Comfort Smart ensures that batteries are fully charged precisely and quickly. And we do this as gently and efficiently as possible to ensure that the batteries last as long as possible. The COMFORT series NiMH chargers are highly developed and are among the most innovative chargers on the market.



NiMH
AAA, AA



1.5 h*



5 V USB

Intelligent "PERFECT 7" charging function

Quick capacity test of the inserted battery

Indication of the battery status via a multicolour LED for each charge slot

Monitoring the charge level of each individual rechargeable battery

Rechargeable battery fault detection, reverse polarity protection, overcharge protection, pulse maintenance charging

Part No. 1001-0092

Part No. 1001-0092-01 (incl. 4x AA 2100)



COMFORT SMART

* Charging time for Mignon AA 1000 mAh
All technical data - see page 225

COMFORT MINI




 NiMH
 AAA, AA

 1.5 h*

 5 V USB

- Intelligent "PERFECT 7" charging function
- Quick capacity test of the inserted battery
- Indication of the rechargeable battery status via a multicolour LED for each charge slot
- Monitoring the charge level of each individual rechargeable battery
- Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic changeover to pulse maintenance charging

Part No. 1001-0091 | 1001-0091-01 (incl. 2x AA 2100)

COMFORT MULTI

- Intelligent "PERFECT 7" charging function
- Quick capacity test of the inserted battery
- Indication of the rechargeable battery status via a multicolour LED for each charge slot
- Monitoring the charge level of each individual rechargeable battery
- Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic changeover to pulse maintenance charging

Part No. 1001-0093


 NiMH
 AAA, AA,
 C, D,
 E (9 V)

 1.5 h*

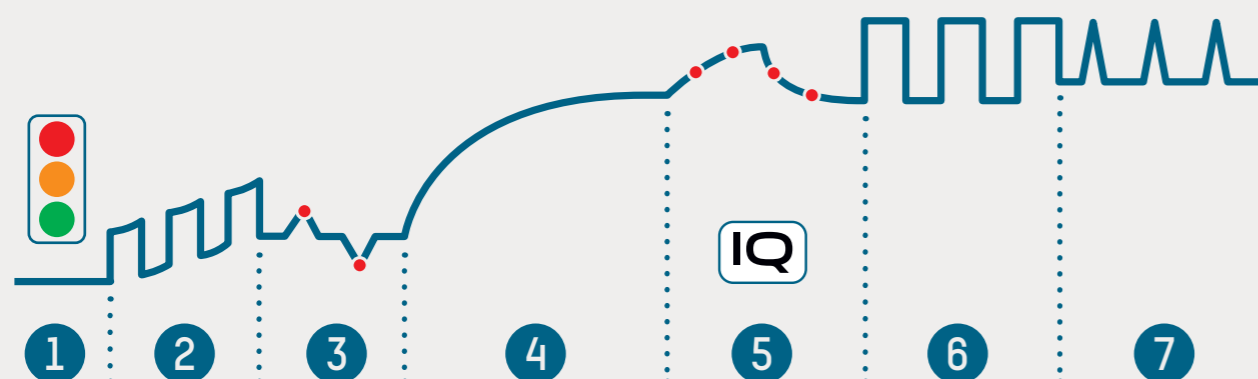
 5 V USB



PERFECT 7 CHARGING

THE NEXT LEVEL NIMH CHARGING TECHNOLOGY

PERFECT 7



1 Quick capacity test

The remaining battery charge is determined before charging begins and displayed for 5 seconds using a traffic light system

2 Gentle pre-charging

A weak or deep-discharged rechargeable battery can be pre-charged with low current if required.

3 Battery analysis

The rechargeable battery behaviour is analysed and evaluated to determine whether it can still be used reliably or if it is faulty

4 Quick charge process

The rechargeable battery is charged with max. current

5 IQ shutdown

Intelligent monitoring of the battery ensures reliable charging and multifaceted protection against overcharging

6 Top-off charging

This stage ensures that the battery is gently charged to 100% full




7 Trickle charging

The battery is kept in a fully charged state by means of charging pulses

All technical data - see page 225

COMFORT PLUS




 NiMH
 AAA, AA,
 E (9 V)

 2.2 h*

 100-240 V AC

- Intelligent "PERFECT 7" charging function
- Capacity indicator and charging status via intuitive display
- Simple charging by plugging into the socket
- Selectable discharge function
- Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic changeover to pulse maintenance charging

Part No. 1001-0094 | 1001-0094-01 (incl. 4x AA 2100)



* Charging time for Mignon AA 1000 mAh

BASIC

FEATURES



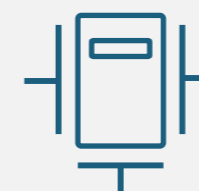
SWITCHES OFF AUTOMATICALLY

As soon as the BASIC chargers are connected to the power source, the timer is activated. The charging process ends automatically after around 18 hours, ensuring that all batteries are fully charged at this point.



OVERCHARGING PROTECTION

Rechargeable batteries are sensitive energy storage devices. They want to be cared for and treated well so that they can be used for as long as possible. The timer function stops charging and protects the batteries from continuous overcharging.



SMALL & COMPACT

The BASIC chargers impress with their slim and lightweight design, which makes them ideal travelling companions. Thanks to their compact shape, they can be easily stowed away in a bag, rucksack or suitcase.

BASIC

BASIC II

Time-controlled charging

Automatic charge current adaptation

LED charge display

Reverse polarity protection

Including 2x Mignon AA rechargeable batteries 1300 mAh

Part No. 1001-0119-01



NiMH
AAA, AA



6 h*



5 V USB



BASIC IV



NiMH
AAA, AA



6 h*



5 V USB



Time-controlled charging

Automatic charge current adaptation

LED charge display

Reverse polarity protection

Including 4x Mignon AA rechargeable batteries 1300 mAh

Part No. 1001-0120-01

HOW DO YOU
STORE
NIMH
BATTERIES
CORRECTLY?



Always store the bat-
tery in a dry place



Store the battery at room
temperature, preferably
between 18° and 25°C.

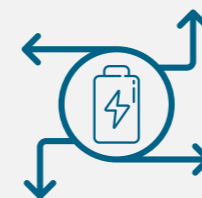


Never fully discharge
the battery. So, recharge
every 2-3 months.

* Charging time for Mignon AA 1000 mAh All technical data - see page 226

SPECIAL-ISTS

FEATURES



VERSATILE CHARGING TECHNOLOGY

Not every application allows the use of standard NiMH technology, e.g. if other voltages or cell sizes are required. To ensure optimum charging for every battery technology, ANSMANN offers special chargers that are individually adapted to the characteristics of the different battery systems.



OVERCHARGING PROTECTION

Rechargeable batteries are sensitive energy storage devices. They want to be cared for and treated well so that they can be used for as long as possible. This also means that they are not charged for too long. ANSMANN chargers analyse the charge level and stop charging as soon as the battery is full.



PROTECTIVE FUNCTION

Several interconnected systems protect the inserted batteries from overheating and overcharging. So you can sit back comfortably while your battery is being recharged to full capacity.

NIZN CHARGER



NiZn,
AAA, AA

2.4 h*



100-240 V AC Part No. 1001-0013

Suitable for 1.6 V nickel-zinc rechargeable batteries

Single slot monitoring

Microcontroller-monitored charge control

Charging status display via LED

Defective battery detection

LITHIUM 2

Charger for 1-2 Li-Ion rechargeable batteries 26650, 22650, 18650, 18500, 17670, 16340 etc., or 1-2 NiMH rechargeable batteries Mignon AA/Micro AAA

Automatic detection of Li-Ion and NiMH rechargeable batteries

Indication of the charge status via 3 LEDs per charge slot

Single slot monitoring

Part No. 1001-0050

Li-Ion,
18650,
NiMH
AAA, AA

2.4 h*



5 V USB



ACS48

Charger for 4-8 cell NiMH rechargeable battery packs (4.8 V - 9.6 V)

Automatic detection of the number of cells

Including polarity changer and 8 different output plugs

Including adapter cable with Tamiya socket for racing packs

Short-circuit and reverse polarity protection

Part No. 1001-0024



4-8 cell NiMH
battery packs



3.5 - 8 h*



100-240 V AC



ACS110

Charger for 1-10 cell NiMH rechargeable battery packs (1.2 V - 12 V)

Automatic detection of the number of cells

Includes polarity changer and 8 different output plugs as well as adapter cable with Tamiya socket for racing packs and adapter cable with crocodile clips

Pre-discharging of the battery pack possible, then automatic changeover to the charging process

Short-circuit and reverse polarity protection

Part No. 1001-0023



1-10 cell NiMH
battery packs



1.5 h*



100-240 V AC



LI-ION 18650 COMPATIBLE ANSMANN PRODUCTS



LED LAMP T400FR

Professional outdoor torch with 4 light functions

Further details on page 153

Part No. 1600-0150



LED LAMP T600FRB

Professional outdoor torch with 5 light functions

Further details on page 153

Part No. 1600-0268

* Charging time for Mignon AA 1000 mAh

All technical data - see page 227



* Charging time per 1000 mAh



USB & Qi CHARGERS

FEATURES



MULTISAFE
TECHNOLOGY

Even if they look harmless, rechargeable batteries, especially Li-Ion, have a high energy density and therefore a certain potential danger. ANSMANN has developed several protection systems to protect you and your device from overloading, deep discharging, short-circuiting and overcharging the battery.



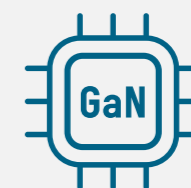
USB TYPE-C
CONNECTION

Fit for the future: With the new and flexible USB-C ports, you not only charge with more power, but also much faster. The new standard is used by numerous manufacturers and enables compatibility across many areas.



WIRELESS
CHARGING

I want to break free! The dreams of smartphone users plagued by cables are finally coming true: our modern Qi chargers enable wireless charging – just place your phone on them. The globally common "Qi" system standard is now supported by almost all smartphone manufacturers.



GaN
TECHNOLOGY

"GaN" stands for gallium nitride, a semiconductor technology that can conduct high electrical currents with low heat generation. This makes it possible, for example, to offer USB chargers with high power in significantly smaller sizes.



The Power Delivery All-Charger

With GAN technology and a power rating of 65 W, the USB-PD charger offers the ideal charging solution for your challenging application. It ensures safe and optimised charging thanks to intelligent charging control and multisafe technology. Very low stand-by consumption makes it not only efficient, but also economical.

2x USB Type-C

USB

65 W

Display shows the current energy consumption in watts

Integrated Power Delivery with PPS and Quick-Charge (QC) protocol

Multisafe technology protects both your end-device and the charger

Input:
100 - 240 V AC | 50-60 Hz | Max. 1.5 A

Output:
5 - 20 V | Max. 3.3 A

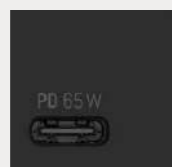
Part No. 1001-0150



HOME CHARGER 365PD

All technical data
see page 228

HOME CHARGER 265PD



USB
Type-C

USB

65 W

Compact dimensions thanks to GAN technology

Integrated Power Delivery (PD) and Quick-Charge (QC) protocol

Multisafe technology protects both your end-device and the charger

Input: 110 - 240 V AC | 50-60 Hz | Max. 1.5 A

Output: 5 - 20 V | Max. 3.25 A

Part No. 1001-0096

HOME CHARGER 245PD



USB
Type-C

USB

45 W

Compact dimensions thanks to GAN technology

Integrated Power Delivery (PD) and Quick-Charge (QC) protocol

Multisafe technology protects both your end-device and the charger

Input: 110 - 240 V AC | 50-60 Hz | Max. 1 A

Output: 5 - 20 V | Max. 3 A

Part No. 1001-0095

POWER DELIVERY

WHAT IS THAT?



Power Delivery is a quick-charging standard which can deliver up to 100 Watts by means of the USB-C connector. This means that not only small devices, such as smartphones, can be charged via USB Type-C, but that compatible laptops, for example the Apple MacBook Pro, now no longer require an extra mains adapter.



100
WATT



18
WATT



12
WATT



STANDARD USB



1 hour, 45 minutes



1 hour, 50 minutes

STANDARD USB

3 hours, 15 minutes

Power Delivery can output up to 100 Watts. This places it far ahead of the competition. Amongst other things, it also enables notebooks to be charged via USB Type-C.



Power Delivery with PPS revolutionises the charging of devices and offers a versatile, fast and at the same time gentle charging solution for your devices. The voltage and current can be adjusted in real time to the current state of charge of the connected device.

Power Delivery charges compatible device up to 20 times faster than the USB standard. Here is a comparison of the charge speed for an iPhone XS Max.



All technical data - see page 228

HOME CHARGER 430



SMART
IC

Intelligent charge controller ensures optimum charging



4x USB

Automatic monitoring of the output voltage and output current

Multisafe technology protects both your end-device and the charger

Input: 110 - 240 V AC | 50-60 Hz | Max. 1.0 A

Output: 5 V | Max. 6.0 A

30 W

Black: Part No. 1001-0107 | White: Part No. 1001-0113

HOME CHARGER 218PD

Integrated Power Delivery (PD) protocol for fast charging of compatible devices, e.g. smartphones, tablets, notebooks

Intelligent charge controller ensures optimum charging

Multisafe technology protects both your end-device and the charger

Input: 100 - 240 V AC | 50-60 Hz | Max. 0.5 A

Output: 5 - 12 V DC | Max. 3.0 A

Black: Part No. 1001-0109 | White: Part No. 1001-0111

USB
Type-C

USB

20 W



HOME CHARGER 118QC

Qualcomm Quick Charge 3.0, backwards compatible with QC 1.0 & 2.0

Automatic monitoring of the output voltage and output current

Intelligent charge controller ensures optimum charging

Input: 100 - 240 V AC | 50-60 Hz | 0.5 A

Output: 5 - 12 V | Max. 3.0 A

Part No. 1001-0099

QC 3.0

USB

18 W



HOME CHARGER 212

Intelligent charge controller ensures optimum charging

Automatic monitoring of the output voltage and output current

Multisafe technology protects both your end-device and the charger

Input: 110 - 240 V AC | 50-60 Hz | Max. 0.5 A

Output: 5 V DC | Max. 2.4 A

Black: Part No. 1001-0106 | White: Part No. 1001-0114

2x USB

12 W



HOME CHARGER 105

Intelligent charge controller ensures optimum charging

Automatic monitoring of the output voltage and output current

Multisafe technology protects both your end-device and the charger

Input: 100 - 240 V AC | 50-60 Hz | 0.3 A

Output: 5 V DC | Max. 1.0 A

Black: Part No. 1001-0108 | White: Part No. 1001-0112

USB

5 W



All technical data - see page 228

HC130PD MINI



 USB Type-C  30 W

Extremely small USB charger with GaN technology

Integrated Power Delivery (PD) quick-charge protocol

Multisafe technology protects both your end-device and the charger

Input: 110 - 240 V AC | 50-60 Hz | 1.0 A

Output: 5 - 20 V | Max. 3.0 A

Part No. 1001-0154

HC120PD MINI



 USB Type-C  20 W

Extremely small USB charger with GaN technology

Integrated Power Delivery (PD) quick-charge protocol

Multisafe technology protects both your end-device and the charger

Input: 110 - 240 V AC | 50-60 Hz | 0.5 A

Output: 5 - 12 V | Max. 3.0 A

Part No. 1001-0153

TRAVEL CHARGER 230PD

Compatible, interchangeable plugs for US / UK / EU countries

Intelligent charge controller ensures optimum charging

Multisafe technology protects both your end-device and the charger

Input: 100 - 240 V AC | 50-60 Hz | Max. 1.0 A

Output: 5 - 20 V DC | Max. 3.0 A

Part No. 1001-0140



TRAVEL CHARGER 315



Compatible, interchangeable plugs for US / UK / EU countries

Intelligent charge controller ensures optimum charging

Multisafe technology protects both your end-device and the charger

Input: 100 - 240 V AC | 50-60 Hz | Max. 0.5 A

Output: 5 V DC | Max. 3.0 A

Part No. 1001-0139




SMART IC WHAT IS THAT?

SMART IC

With the help of Smart IC technology, the charger automatically identifies your devices and provides them with the appropriate and, above all, safe charging current.

All technical data - see page 229

DESKTOP CHARGER 5140PD



PD 3.0 SMART IC

3x USB Type-C

2x USB

140 W

USB charge station for laptop workstations and devices that can be charged or operated via USB

Display of the current energy consumption in watts

Multisafe technology protects both your end-device and the charger

Input: 100 - 240 V AC | 50-60 Hz | Max. 2.5 A

Output: 5 - 20 V DC | Max. 5.0 A

Part No. 1001-0149

WILINE 15R

Inductive wireless charger with integrated LED display

Compatible with all Qi-capable smartphones & receivers

USB-A / USB type-C cable included


Input: 5 - 12 V DC | 2.0 A

Output: 5 - 9 V DC | 1.67 A

Part No. 1001-0126

15 W

Qi certified



DESKTOP CHARGER 465PD

Compact USB charge solution for laptop workstations and devices that can be charged or operated via USB

Flat, compact design thanks to GAN technology

Multisafe technology protects both your end-device and the charger

Input: 110 - 240 V AC | 50-60 Hz | Max. 1.5 A


Output: 5 - 20 V DC | Max. 3.25 A

Part No. 1001-0141

2x USB Type-C

2x USB

65 W





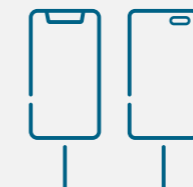
All technical data - see page 229



All technical data - see page 230

IN-CAR USB CHARGERS

FEATURES



UNIVERSAL
USE

With the ANSMANN USB in-car charger you can charge any USB-capable device even when driving. And up to four devices at the same time - whether smartphone, tablet or sat nav.



USB TYPE-C
CONNECTION

Fit for the future: With the new and flexible USB-C ports, you not only charge with more power, but also much faster. The new standard is used by numerous manufacturers and enables compatibility across many areas.



3.0 QUICK CHARGE
COMPATIBLE

With Qualcomm® Quick Charge technology, you can charge your devices faster than with conventional charging methods, so they don't have to be plugged in for as long. QC3.0 is supported by numerous manufacturers.



3-YEAR
GUARANTEE

We are confident in our developments and products - and in their quality and performance. That is why we grant an extended manufacturer's warranty on our chargers. As a result, our customers are always on the safe side in the event of a defect.

IN-CAR CHARGER 230PD



USB
Type-C



USB



30 W

- Integrated Power Delivery (PD) protocol for fast charging of compatible devices such as smartphones and tablets
 - Intelligent charge controller ensures optimum charging
 - Multisafe technology protects both your end-device and the charger
 - Input: 12 - 24 V DC | 3.0 A
 - Output: 5 - 20 V DC | Max. 3.0 A
- Part No. 1000-0029

IN-CAR CHARGER 212

- Intelligent charge controller ensures optimum charging
 - Multisafe technology protects both your end-device and the charger
 - Suitable for devices that can be charged or operated via USB
 - Input: 12 - 24 V DC | 2.4 A
 - Output: 5 V DC | Max. 2.4 A
- Part No. 1000-0030



2x USB



12 W



IN-CAR CHARGER 105



USB



5 W

- Intelligent charge controller ensures optimum charging
 - Multisafe technology protects both your end-device and the charger
 - Suitable for devices that can be charged or operated via USB
 - Input: 12 - 24 V DC | 1.0 A
 - Output: 5 V DC | 1.0 A
- Part No. 1000-0031



All technical data - see page 231

CAR CHARGERS

FEATURES



RECOND MODE

In RECOND MODE, the charger automatically recognises when the battery is deeply discharged or damaged. It then charges the battery gently by pulsing charging currents until a basic voltage is reached. A normal charging process can then be carried out.



COLD TEMP MODE

The condition of your battery also changes at low temperatures. The ANSMANN COLD TEMP MODE is recommended for temperatures below 5°C. This mode guarantees that the battery is fully charged to 100% even in cold temperatures.



PROTECTIVE FUNCTION

Important protective functions ensure maximum safety during the charging process. This includes electronic protection against short circuits, overcharging, deep discharge and reverse polarity. These functions protect the battery and the charger from damage.



3-YEAR GUARANTEE

We are confident in our developments and products - and in their quality and performance. That is why we grant an extended manufacturer's warranty on our chargers. As a result, our customers are always on the safe side in the event of a defect.



BC 6-12V / 10A

Intelligent Lead acid charger

The ANSMANN car charger from the lead charger series can be used for cars and motorbikes, as well as for many other vehicles. It ensures safe and gentle charging of batteries and guarantees optimum performance and a long service life thanks to numerous features.

 10 Step charging

 7-200 Ah

 6 V | 2 A
12 V | 10 A

For lead-acid, lead-gel, lead-mat & lithium iron phosphate (LiFePO4) batteries

6 different charging programs can be set

Regeneration mode, cold temp mode, defect detection, automatic recharging, power supply mode

Safe charging thanks to short-circuit, reverse polarity, overcharging & deep discharge protection

Dust-tight and protected against water jets thanks to IP65 rating

Including post terminal clamps, ring cable lugs & vehicle socket

Part No. 1001-0146



All technical data
see page 232



BC 6-12 V / 6 A



Step charging



4-150 Ah



6 V | 2 A
12 V | 6 A

For lead-acid, lead-gel, lead-mat & lithium iron phosphate (LiFePO4) batteries

6 different charging programs can be set

Regeneration mode, cold temp mode, defect detection, automatic recharging, power supply mode

Safe charging thanks to short-circuit, reverse polarity, overcharging & deep discharge protection

Including post terminal clamps & ring cable lugs

Part No. 1001-0145



BC 6-12 V / 4 A

For lead-acid, lead-gel, lead-mat & lithium iron phosphate (LiFePO4) batteries

6 different charging programs can be set

Regeneration mode, cold temp mode, defect detection, automatic recharging, power supply mode

Safe charging thanks to short-circuit, reverse polarity, overcharging & deep discharge protection

Including post terminal clamps & ring cable lugs

Part No. 1001-0144



Step charging



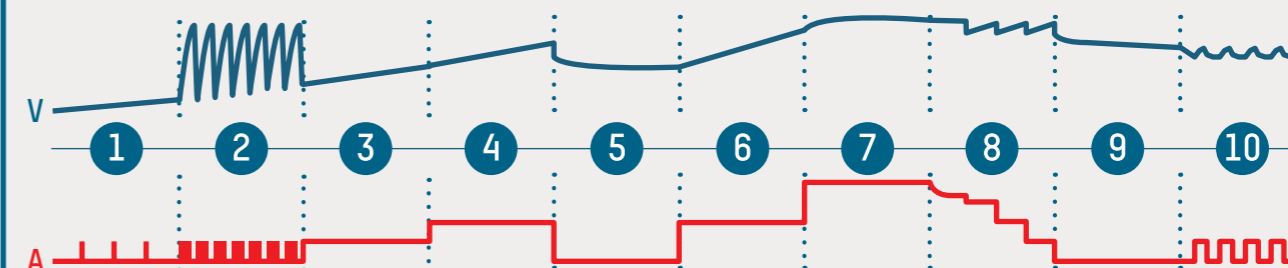
4-120 Ah



6 V | 2 A
12 V | 4 A



10 STEP CHARGING FOR SAFE AND GENTLE CHARGING



1 Battery check

After selecting the charging mode, the charger checks the status of the battery.

2 Desulphation

Automatic detection of sulphated lead batteries. Pulsing current and voltage dissolves the sulphate from the battery's lead plates to restore maximum battery capacity.

3 Refresh

Gentle pre-charging current charges and reactivates older or rarely used batteries.

4 Reactivation

Gentle charging of the battery with increased charging current.

5 Analysis

Switching off the charging current to check the open-circuit voltage.

6 Activation charge

Switching off the charging current to check the open-circuit voltage.

7 Main charging

Constant-current charge with the maximum charge current.

8 Charge optimisation

The charge current is gradually reduced to reach the max. possible battery capacity.

9 Voltage check

Battery charge level check.

10 Maintenance charging

If required, pulse maintenance charging, which prevents the battery from discharging.

NUMEROUS FEATURES FOR VARIOUS APPLICATIONS



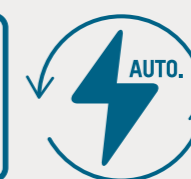
RECOND MODE

If the battery is deep-discharged or impaired



COLD TEMP MODE

[12 V AGM/C] at cold temperatures [-20°C - +5°C]



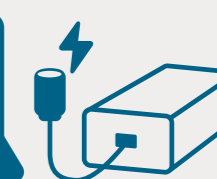
AUTOMATIC RECHARGING

If the battery remains connected to the unit



DEFECT DETECTION

Fast detection of faulty batteries



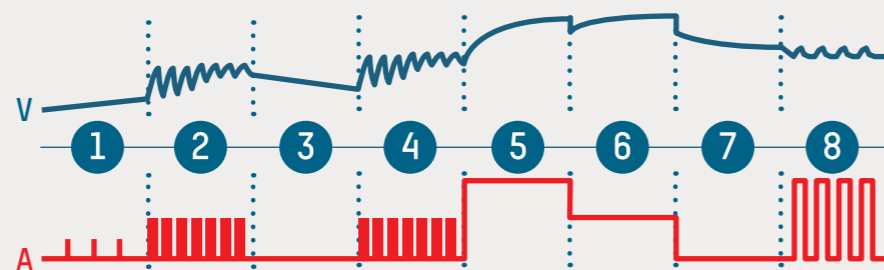
POWER SUPPLY MODE

For operating 12 V applications via the vehicle socket



All technical data - see page 232

8 STEP CHARGING



- | | | | |
|-----------------|-----------------------|-----------------|------------------------|
| 1 Battery check | 2 Desulphation | 3 Analysis | 4 Reactivation |
| 5 Main charging | 6 Charge optimisation | 7 Voltage check | 8 Maintenance charging |

BC 6-12V / 2A

For lead-acid, lead-gel, lead-mat & lithium iron phosphate (LiFePO4) batteries

3 charging programs each with 1 A or 2 A charging current can be set

Defect detection, automatic recharging

Safe charging thanks to short-circuit, reverse polarity, overcharging & deep discharge protection

Including post terminal clamps & ring cable lugs

Part No. 1001-0143

8 Step charging



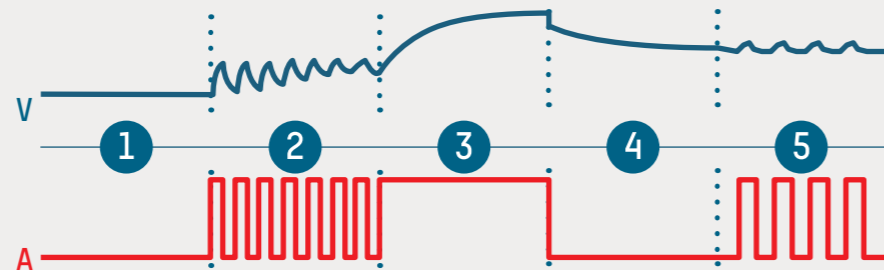
4-60 Ah



6 V | 2/1 A
12 V | 2/1 A



5 STEP CHARGING



- | | | |
|-----------------|------------------------|-----------------|
| 1 Battery check | 2 Desulphation | 3 Main charging |
| 4 Voltage check | 5 Maintenance charging | |

BC 6-12V / 1A

For lead-acid, lead-gel & lead-mat batteries

Automatic voltage detection

Defect detection, automatic recharging

Safe charging thanks to short-circuit, reverse polarity, overcharging & deep discharge protection

Including post terminal clamps & ring cable lugs

Part No. 1001-0142

5 Step charging



4-30 Ah



6 V | 1 A
12 V | 1 A



PROTECTIVE FUNCTIONS

FOR SAFE AND GENTLE CHARGING



Short-circuit protection



Overcharging protection (current + voltage)



Deep discharge protection



All technical data - see page 232

ALCT 6-24/10



⚡🔋
6 V | 1 A
12 V | 10 A
24 V | 5 A

For lead-acid batteries from 4.5 Ah

Automatic voltage detection

Overcharging protection

COLD TEMP mode for full charging even in cold conditions

REFRESH mode for deeply discharged batteries

Part No. 1001-0014

ALCS 2-12/0.4

For lead-acid batteries from 1.2 Ah

Suitable for standby and parallel operation

Overcharging protection

3.5 m long charging cable

Part No. 1001-0015



2 V | 0.4 A
6 V | 0.4 A
12 V | 0.4 A



ALCS 2-24A

For lead-acid batteries from 1.3 Ah

Automatic voltage detection

Overcharging protection

Charge current control

Part No. 9164016



2 V | 0.9 A
6 V | 0.7 A
12 V | 0.6 A
24 V | 0.3 A



All technical data - see page 233

POWER-STATIONS



Your battery-powered power source

Let's face it – without electricity, hardly anything is possible these days. Our modern life is dependent on energy from the socket. But what do you do if the power fails or a mains socket is unavailable?

FEATURES

POWERSTATIONS



LiFePo4
BATTERY

Ansmann uses special lithium iron phosphate batteries (LiFePO₄) for the Powerstations - these cannot catch fire even if damaged and have an impressive service life up to 10 times longer than conventional lithium batteries.



EMERGENCY
POWER

The mobile power storage units are ideal as a power source in the event of power failures and illuminate the surroundings well thanks to the integrated LED lighting. The Powerstations are also compatible with solar panels and so can also be charged without a socket.



JUMP-START
FUNCTION

It always happens at an inopportune moment that a car no longer starts.. The ANSMANN Powerstations are your saviour in an emergency, they have enough power to jump-start your car.



MULTISAFE
TECHNOLOGY

Our Powerstations have several protective systems and switch-off prevention for low-current applications. The safety technology protects you and your device from overcurrent, overtemperature, deep discharge, short circuit and overcharging.



2200 W



1408 Wh



3000
cycles

PS2200AC

Safe lithium iron phosphate battery (LiFeP04) with a long service life and a capacity of 1408 Wh

Inputs: 2× DC 5521 12-30 V / 9.5 A max. 200 W

Output connections:
3× AC socket, 3× USB-A, 1× USB-A QC, 2× USB-C PD
1× DC car adapter, 2× DC5521, 1× Jump-Starter

Two carrying handles and integrated storage box

Integrated 12 W LED lamp with 3 dimming levels,
SOS and strobe mode

Part No. 1700-0168

PS600AC



600 W



640 Wh



3000
cycles

Safe lithium iron phosphate battery (LiFeP04) with a long service life and a capacity of 640 Wh

Inputs: DC 5521 12-30 V/8.3 A max. 100 W

Output connections:
2× AC socket, 2× USB-A, 1× USB-A QC, 1× USB-C PD
1× DC car adapter, 2× DC5521, 1× Jump-Starter

Fixed, robust carrying handle

Integrated 10 W LED lamp with 3 dimming levels,
SOS and strobe mode

Part No. 1700-0167



CHARGEABLE DEVICES



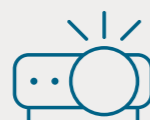
189x
Smartphone
1960 mAh



21 h
Laptop
60 W



22x
Drone
59 Wh



20 h
Projector
60 W



13 h
Light bulb
100 W



21 h
Refrigerators
60 W



1.6 h
Electric grill
800 W



1.5 h
Air conditioning
840 W

CHARGEABLE DEVICES



87x
Smartphone
1960 mAh



28x
Tablet
6000 mAh



9 h
Laptop
60 W



12 h
Television
50 W



94x
Camera
1800 mAh



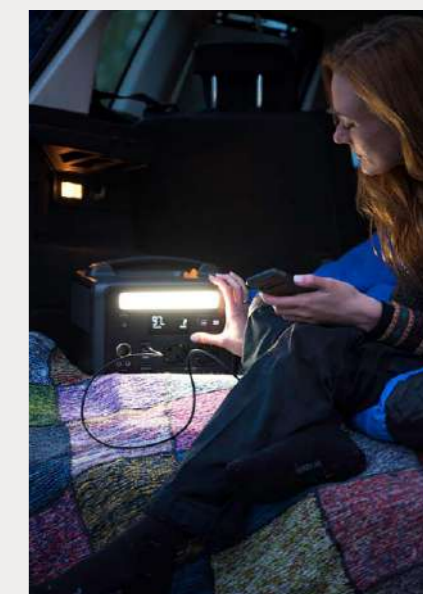
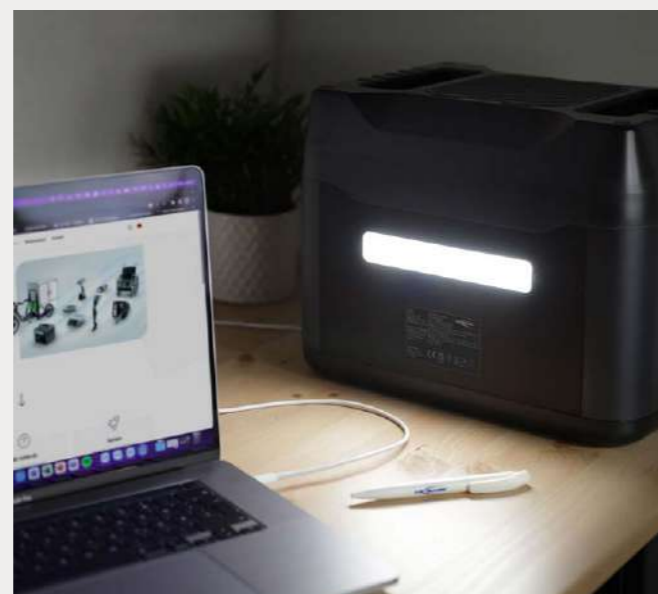
10x
Drone
59 Wh



54 h
Light bulb
10 W



17 h
Refrigerator
35 W



All technical data - see page 234

EXTENSION PSE2200



⚡
1408 Wh

LiFePO4
3000 cycles

Expansion battery for Powerstation PS2200 (1700-0168)

Safe lithium iron phosphate battery (LiFePO4)

Connection for charging and discharging with only one cable

Incl. CP3500 connection cable

Part No. 1700-0170

EXTENSION PSE600

Expansion battery for Powerstation PS600 (1700-0167)

Safe lithium iron phosphate battery (LiFePO4)

Connection for charging and discharging with only one cable

Incl. CP3500 connection cable

Part No. 1700-0169

⚡
640 Wh

LiFePO4
3000 cycles



All technical data - see page 234

JUMP-START ADAPTER



Jump-start cable with safety electronics

Solid clamp insulation

High-quality copper contacts

Compatible with ANSMANN Powerstations PS600AC & PS2200AC

Part No. 1700-0174



100 SOLAR PANEL

Folding solar panel with max. 100 Watts power

2 m connection cable with 3 adapter plugs

USB ports with fast charging function (QC3.0 & PD3.0)

Mounting aids and hanging eyes, robust carrying handles with magnetic catch

Part No. 1001-0152



All technical data - see page 235

POWER- BANKS



The mobile power packs

Do you like travelling, are you on the road a lot or are you drawn out into the wilderness? With ANSMANN Powerbanks, you don't have to do without your smartphone when travelling or in remote locations. Recharge it up to 15x with the ANSMANN Powerbanks.

FEATURES

POWERBANKS



MULTISAFE TECHNOLOGY

Our multifaceted safety technology protects you and your device from overloading, deep discharging, short circuits and overcharging.



WIRELESS CHARGING

Some of our Powerbanks are equipped with Qi charging technology. This allows you to charge your Qi-enabled device conveniently and wirelessly.



3.0 QUICK CHARGE COMPATIBLE

Qualcomm Quick Charge 3.0 technology enables fast charging of your end device. This allows your device to be charged up to 80% in just 35 minutes.



POWER DELIVERY

Power Delivery is a new quick-charging standard which can deliver up to 100 Watts by means of the new USB Type-C connector. This means that compatible notebooks can also be charged without a special power supply unit.



POWERBANK

Waterproof Power package

The robust, portable Powerbanks with a capacity of 40000 mAh is not only waterproof, but also drop-proof. Thanks to its enormous capacity, it keeps your devices charged at all times. The integrated light provides you with additional light in dark situations and makes it an ideal companion for outdoor activities.



Power Delivery with PPS for fast and efficient charging of MacBooks, for example

LCD display: voltage, power, current, temperature and remaining battery life

Multisafe technology protects both your end-device and the charger

USB Type-C input: 5 - 20 V DC | 5 A

Output: 5 - 20 V DC | 5 A

Part No. 1700-0178



40.0 LED

All technical data
see page 236

POWERBANK 24.0 PRO



24.000 mAh



USB Type-C, Micro USB & Lightning



2x USB



22.5 W

Supports the Quick Charge 3.0 and Power Delivery protocol as well as Huawei Supercharge

LED display with percentage-point accurate capacity indication

Multisafe technology protects both your end-device and the charger

Input: 5 - 9 V DC | 2.0 A

Output: 5 - 12 V DC | 4.5 A

Part No. 1700-0153

POWERBANK 20.0 PRO

Integrated Power Delivery (PD) protocol for fast charging of compatible devices, e.g. smartphones, tablets, notebooks

Intelligent charge controller ensures optimum charging

Multisafe technology protects both your end-device and the charger

Input: 5 - 9 V DC | 3.0 A

Output: 5 - 12 V DC | 3.0 A

Part No. 1700-0147

20.000 mAh



USB Type-C & Micro USB



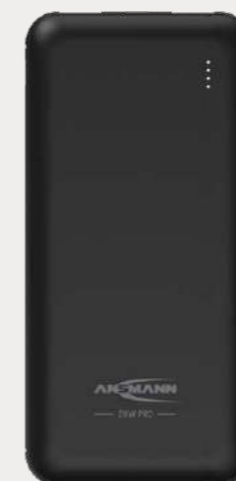
2x USB



20 W



POWERBANK 10.0 PRO



10.000 mAh



USB Type-C & Micro USB



2x USB



20 W

Integrated Power Delivery (PD) protocol for fast charging of compatible devices, e.g. smartphones, tablets, notebooks

Intelligent charge controller ensures optimum charging

Multisafe technology protects both your end-device and the charger

Input: 5 - 9 V DC | 3.0 A

Output: 5 - 12 V DC | 3.0 A

Part No. 1700-0148

POWER DELIVERY

EXTREMELY HIGH DEGREE OF SAFETY

Further information on Power Delivery on page 74



Overheating protection



Overcharging protection (current + voltage)



Deep discharge protection




Short-circuit protection




Automatic shutdown


All technical data - see page 236

POWERBANK 20.0 PRO







20.000 mAh



USB Type-C



1x USB



22.5 W

Extremely compact Powerbank, supports the Quick Charge 3.0 and Power Delivery protocols as well as Huawei Supercharge

LED display with percentage-point accurate capacity indication

Multisafe technology protects both your end-device and the charger

Input: 5 - 12 V DC | 2.4 A

Output: 5 - 12 V DC | 4.5 A

Black: Part No. 1700-0155 | White: Part No. 1700-0157

POWERBANK 10.0 PRO

Extremely compact Powerbank, supports the Quick Charge 3.0 and Power Delivery protocols as well as Huawei Supercharge


LED display with percentage-point accurate capacity indication


Multisafe technology protects both your end-device and the charger

Input: 5 - 12 V DC | 2.4 A


Output: 5 - 12 V DC | 4.5 A

Black: Part No. 1700-0154 | White: Part No. 1700-0156







10.000 mAh



USB Type-C



1x USB



22.5 W



All technical data - see page 236

WIRELESS OUTDOOR POWERBANK 10.0



Your robust companion for all activities!



10.000 mAh



Qi-ready



2x USB



USB: 10.5 W
Qi: 5 W



Contactless inductive charging with compatible end devices

Integrated solar panel, LED lamp and practical hanging loop for individual attachment

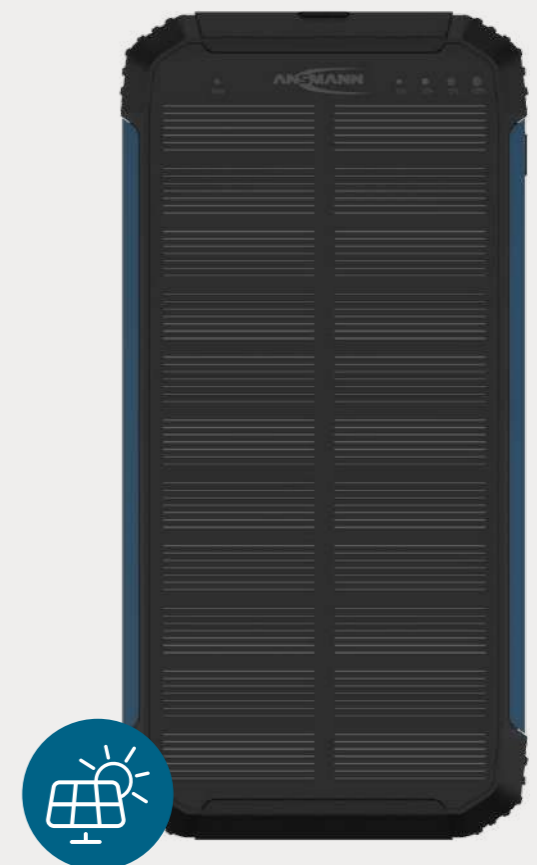
Multisafe technology protects both your end-device and the charger

Input: 5 V DC | 2.1 A

Output: 5 V | 2.1 A | Wireless output: 5 V | 1.0 A

Part No. 1700-0164

Use sunlight sustainably



All technical data - see page 237



POWERBANK

The compact everyday Companion

The practical Powerbank from ANSMANN with its elegant design is light, powerful and always by your side. Thanks to the compact construction, the light energy store can fit in the pocket of any jacket, trousers or handbag. With the USB to micro-USB charge cable, the product is the ideal companion when out and about.



10.000 mAh



2x USB



12 W

Intelligent charge controller ensures optimum charging

Multisafe technology protects both your end-device and the charger

Particularly compact housing for optimum portability

Input: 5 V DC | 2 A

Output: 5 V | Max. 2.4 A

Part No. 1700-0091



10.8 MINI

All technical data
see page 237

POWERBANK 30.0




30.000 mAh

 USB Type-C, Micro
 USB & Lightning

2x USB

10.5 W

Suitable for devices that can be charged or operated via USB

Intelligent charge controller ensures optimum charging

Multisafe technology protects both your end-device and the charger

Input: 5 V DC | 2.0 A

Output: 5 V DC | 2.1 A

Part No. 1700-0134

POWERBANK 20.0

Suitable for devices that can be charged or operated via USB





Intelligent charge controller ensures optimum charging

Multisafe technology protects both your end-device and the charger

Input: 5 V DC | 2.0 A

Output: 5 V DC | 2.1 A





Part No. 1700-0133


20.000 mAh

 USB Type-C &
 Micro USB

2x USB

10.5 W



POWERBANK 10.0




10.000 mAh

 USB Type-C &
 Micro USB

2x USB

10.5 W

Suitable for devices that can be charged or operated via USB

Intelligent charge controller ensures optimum charging

Multisafe technology protects both your end-device and the charger

Input: 5 V DC | 2.0 A

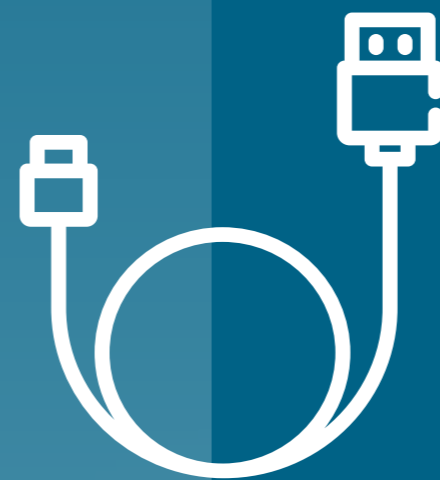
Output: 5 V DC | 2.1 A

Part No. 1700-0132



All technical data - see page 237

SMARTPHONE ACCESSORIES



The right connection for all

Whether USB, USB Type-C, whether one, two or even five devices. With the modern and contemporary ANSMANN USB chargers and USB cables, you can charge almost any device. In addition to powerful and universal solutions, the ANSMANN range also offers clever combinations and practical bundles.

USB CABLE

FEATURES



ALUMINIUM HOUSING

Thanks to the highly flexible cable made of PVC-free TPE plastic and the robust aluminium housings with injection-moulded strain relief, the ANSMANN cable combines two properties, which make this cable extremely resistant to high loads.



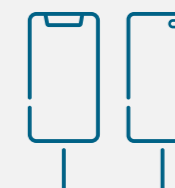
3-YEAR GUARANTEE

We are confident in our developments and products - and in their quality and performance. That is why we grant an extended manufacturer's warranty on our chargers. As a result, our customers are always on the safe side in the event of a defect.



ULTRA-FAST

The ANSMANN cables charge and synchronise ultra-fast at speeds of up to 5 Gbit/s. Our cables also support all common fast charging technologies - including Quick Charge technology and Power Delivery.



UNIVERSAL USE

ANSMANN cables are compatible with all common end devices that have a USB port, such as smartphones, tablets, games consoles, cameras, GPS devices, Powerbanks, Bluetooth speakers and e-readers or Apple Lightning.

DATA AND CHARGING CABLE



MICRO-USB

- Plastic charging cable
- Data transfer with up to 480 Mbit/s
- Compatible with all end devices with a micro USB connection

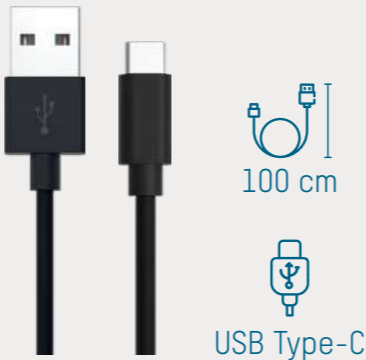
Part No. 1700-0129



LIGHTNING

- Plastic charging cable
- Data transfer with up to 480 Mbit/s
- Compatible with all devices with a Lightning connector

Part No.1700-0131



USB TYPE-C

- Plastic charging cable
- Data transfer with up to 480 Mbit/s
- Compatible with all end devices with USB Type-C connection

Part No. 1700-0130

TYPE-C LIGHT CABLE

Gentle light change, a real eye-catcher!



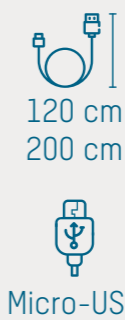
- RGB LEDs create a gentle change of light in many different colours
- Braided transparent copper cables and glass fibre core
- Data transfer with up to 480 Mbit/s
- Compatible with all end devices with USB Type-C connection

Part No. 1700-0158



MICRO USB CABLE

- Very robust thanks to PVC-free plastic
 - Aluminium plug housing
 - Data transfer with up to 480 Mbit/s
 - Compatible with all end devices with a micro USB connection
- 120 cm: Part No. 1700-0076 | 200 cm: Part No. 1700-0077



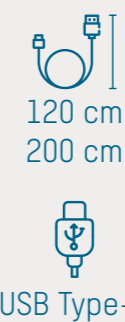
LIGHTNING CABLE



- Very robust thanks to PVC-free plastic
 - Aluminium plug housing
 - Data transfer with up to 480 Mbit/s
 - Compatible with all devices with a Lightning connector
- 120 cm: Part No. 1700-0078 | 200 cm: Part No. 1700-0079

USB TYPE-C CABLE

- Very robust thanks to PVC-free plastic
 - Aluminium plug housing
 - Data transfer with USB 3.1 at up to 5 Gbit/s
 - Compatible with all end devices with USB Type-C connection
- 120 cm: Part No. 1700-0080 | 200 cm: Part No. 1700-0081



3IN1 USB CABLE



Very robust thanks to chlorine-free PP textile sheath and kink protection

Aluminium connector housing with integrated strain relief



Lightning
Micro-USB
USB Type-C

Data transfer with up to 480 Mbit/s

Compatible with all end devices with USB Type-C, Lightning or Micro-USB connection

Part No. 1700-0136

Made for
iPhone | iPad | iPod

TYPE-C TO LIGHTNING CABLE

Very robust thanks to PVC-free plastic

Aluminium plug housing

Data transfer with up to 480 Mbit/s

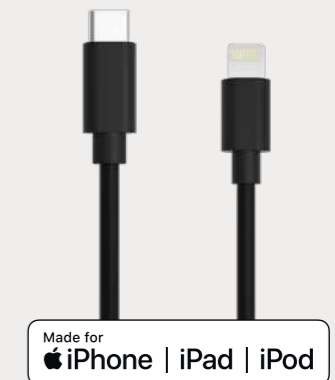
Compatible with all devices with a Lightning connector
(max. 60 W)

120 cm: Part No. 1700-0106 | 200 cm: Part No. 1700-0107



USB Type-C

Lightning



Made for
iPhone | iPad | iPod

TYPE-C TO TYPE-C CABLE



USB Type-C

Very robust thanks to PVC-free plastic

Aluminium plug housing

Data transfer with up to 5 Gbit/s

Compatible with all end devices with USB Type-C connection
(max. 60 W)

120 cm: Part No. 1700-0121 | 200 cm: Part No. 1700-0122

SPEED
SYNCHRONISE &
TRANSFER DATA

480
Mbit/s



STANDARD

5
Gbit/s



FAST

TYPE-C TO TYPE-C CABLE



60 cm



USB Type-C

Elegant textile sheathing, all-metal plug made of zinc alloy

Perfect length for use at the desk, bedside table or when travelling

Data transfer with up to 480 Mbit/s

Compatible with all end devices with USB Type-C connection (for up to 140 watts of Power Delivery power)

Part No. 1700-0177

TYPE-C TO TYPE-C-KABEL

With integrated display

Elegant textile sheathing, all-metal plug made of zinc alloy

Integrated display provides precise information on power consumption

Data transfer with up to 480 Mbit/s

Compatible with all end devices with USB Type-C connection (for up to 140 watts of Power Delivery power)

120 cm: Part No. 1700-0176 | 200 cm: Part No. 1700-0171



120 cm
200 cm



USB Type-C



All technical data - see page 239

USB-C LAPTOP ADAPTER SET

Adapter for laptops/notebooks without USB-C power connection

Compatible with 45 W / 60 W / 100 W USB-C mains power units and USB-C Powerbanks (Power Delivery / Quick Charge)

Assortment with 8 adapters for the most common laptop brands

Protection against overcharging, deep discharge, overload & short circuit

Part No. 1700-0137



Notebooks/
laptops



Suitable for
Type-C cable



All technical data - see page 238

PHONE-HOLDER

FEATURES



MAGNETIC ATTACHMENT

The ultra-powerful magnet ensures an absolutely stable hold, even over poor road surfaces or uneven driving. You are always on the safe side with the ANSMANN magnetic holder thanks to the high-quality manufacturing and multiple quality assurance steps.



VARIABLE FASTENINGS

ANSMANN offers smartphone holders in different versions for all vehicles. From holders for windscreens to compact holders for ventilation grilles.



OPTIMUM DIRECTION

The mobile phone holders are equipped with a 360° rotatable ball joint. The position of the smartphone can be easily adjusted by rotating or tilting the joint, which makes it easy to use in everyday life.

MAGNETIC HOLDER

for ventilation grille



Quick and simple installation on the fins of the air vent

2 ultra-thin metal plates for inserting or sticking on

Viewing angle of the smartphone can be optimally adjusted thanks to the ball joint

Very good hold due to the strong magnet

Compact and elegant design

Part No. 1700-0159

MAGNETIC HOLDER

for windscreens

Quick and simple installation on the windscreen or dashboard thanks to the powerful suction cup

2 ultra-thin metal plates for inserting or sticking on

Viewing angle of the smartphone can be optimally adjusted thanks to the ball joint

Very good hold due to the strong magnet

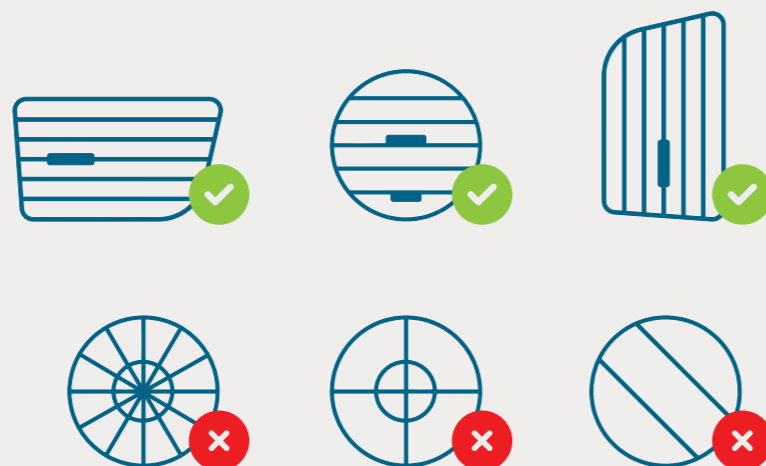
Compact and elegant design

Part No. 1700-0160



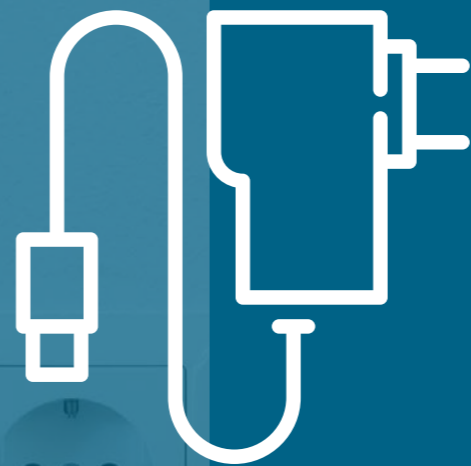
VENTILA-TION GRILLE

WHICH ARE THE RIGHT ONES?



All technical data - see page 240

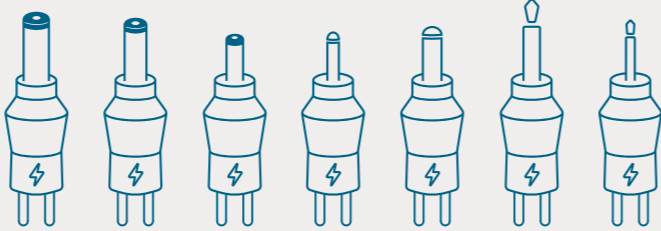



UNIVERSAL POWER SUPPLIES



In every aspect
universal

Universal power supply units provide an economical power supply for a wide range of devices. All devices are voltage-stabilised and short-circuit-proof, available in various power classes.

APS 300 | 600 | 1000 | 1500



Short-circuit proof

Voltage stabilised

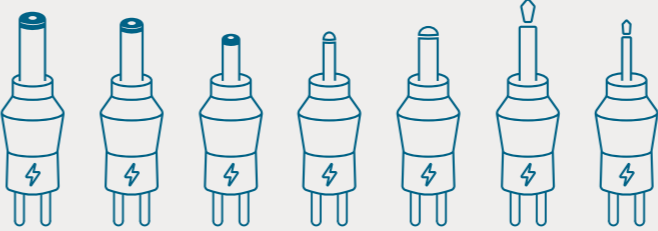


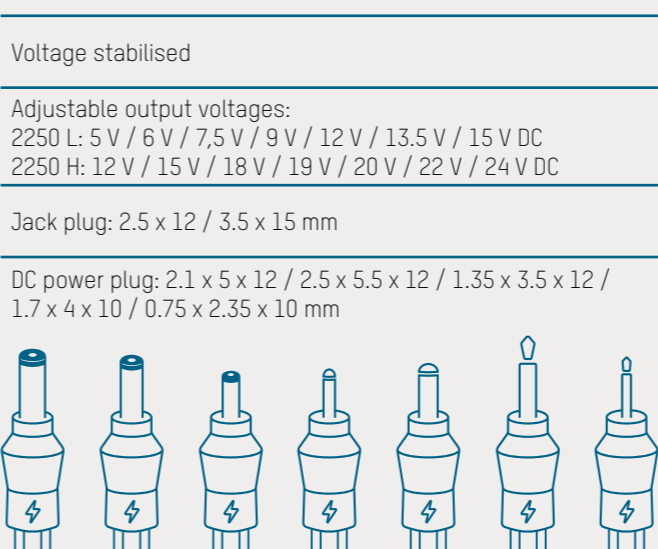
Adjustable output voltages:
3 V / 4.5 V / 5 V / 6 V / 7.5 V / 9 V / 12 V DC

Jack plug: 2.5 x 12 / 3.5 x 15 mm

DC power plug: 2.1 x 5 x 12 / 2.5 x 5.5 x 12 / 1.35 x 3.5 x 12 / 1.7 x 4 x 10 / 0.75 x 2.35 x 10 mm

	APS 300	APS 600	APS 1000	APS 1500
Output voltage	3 - 12 V	3 - 12 V	3 - 12 V	3 - 12 V
Output current	max. 600 mA - 300 mA	Max. 600 mA	Max. 1000 mA	Max. 1500 mA
Output power	Max. 3.6 W	Max. 7.2 W	Max. 12 W	Max. 18 W
	Part No. 1201-0021	Part No. 1201-0022	Part No. 1201-0023	Part No. 1201-0024

APS 2250L | 2250H



Short-circuit proof

Voltage stabilised

Adjustable output voltages:
2250 L: 5 V / 6 V / 7.5 V / 9 V / 12 V / 13.5 V / 15 V DC
2250 H: 12 V / 15 V / 18 V / 19 V / 20 V / 22 V / 24 V DC

Jack plug: 2.5 x 12 / 3.5 x 15 mm

DC power plug: 2.1 x 5 x 12 / 2.5 x 5.5 x 12 / 1.35 x 3.5 x 12 / 1.7 x 4 x 10 / 0.75 x 2.35 x 10 mm

	APS 2250L	APS 2250H
Output voltage	5 - 15 V	12 - 24 V
Output current	max. 2250 - 1800 mA	max. 2250 - 1000 mA
Output power	Max. 27 W	Max. 27 W
	Part No. 1201-0025	Part No. 1201-0026



All technical data - see page 241

THE RIGHT LIGHT



The sheer Power

ANSMANN lights stand for maximum performance in the wild to long-lasting everyday applications in the office or at home. With the customised lighting solutions from ANSMANN, you won't be left in the dark. From professional users to occasional household use, the ANSMANN range has the right light for everyone.

PROFES- SIONAL

TORCH FEATURES



QUICK ZOOM

Sometimes it is necessary to use the torch at close quarters and sometimes to illuminate objects at great distances. Various focussing systems allow the ultra-homogeneous light beam to be quickly and easily adjusted from point-focus to wide-angle.



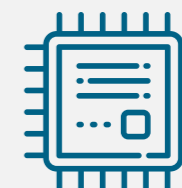
TACTICAL FUNCTIONS

In conjunction with the microcontroller-managed end-cap switch, the M-series is suitable for tactical applications and enables noiseless switching between the different light levels. Morse function is also available.



SPLASH- PROOF

The professional lamps are protected from dust and splashing water per IP54 and are shockproof up to 1 m drop height.



MICROCHIP CONTROLLED

The specially programmed microcontroller allows the user to select various lighting functions via the end cap switch. Simple click combinations enable optimum, silent use of the lights.





PRO 3000R



Tactical functions

The professional

The high-performance Pro 3000R torch has been specially designed for demanding users and is the first choice for police, security services, fire-fighters, rescue services and outdoor sports enthusiasts. The energy-saving and highly efficient LEDs provide enormous brightness and lighting range.

 3200 lm  213 m  76 h  Recharge

3× 10 W high-power LEDs with special lens

Including 26650 Li-Ion battery pack with 3.6 V and 5100 mAh (18.36 Wh)

IP67 waterproof aluminium housing for temporary submersion

6 light functions: 100% | 30% | 5% | Boost mode | SOS | Strobe

Hand strap & holster included

Part No. 1600-0445



All technical data
see page 243

Focussable, tactical

Focus miracle

The professional M350F 5 W LED torch impresses with its ideal proportions and non-slip exterior. In conjunction with the microcontroller-managed end-cap switch, the M-series is suitable for tactical applications and enables noiseless switching between the different light levels.



5 W CREE high-performance LED

Stepless focussing by turning the ring on the lamp head

Splash-proof to IP54 and impact-resistant up to 1 metre drop height

5 light functions: Boost | 100% | 30% | Strobe | Morse code function

Incl. 4x Micro AAA alkaline batteries

Part No. 1600-0172



M350F

All technical data
see page 242

M100F

☀ 115 lm 🔋 70 m ⌚ 5 h



3 W LED technology

Seamless focussing by sliding the lamp head

Splash-proof to IP54 and impact-resistant up to 1 metre drop height

3 light functions: 100% | 30% | Strobe

Incl. 1x Mignon AA alkaline batteries

Part No. 1600-0170

M250F

☀ 260 lm 🔋 150 m ⌚ 10 h



5 W - CREE high-performance LED

Stepless focussing by turning the ring on the lamp head

Splash-proof to IP54 and impact-resistant up to 1 metre drop height

3 light functions: 100% | 30% | Strobe

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0171

M200F

versatile, easy
to grip and focus

☀ 240 lm 🔋 120 m ⌚ 22 h



5 W - CREE high-performance LED

Stepless focussing by turning the ring on the lamp head

Splash-proof to IP54 and impact-resistant up to 1 metre drop height

3 light functions: 100% | 30% | Strobe

Incl. 2x Mignon AA alkaline batteries

Part No. 1600-0173

M900P



☀ 930 lm

🔋 240 m

⌚ 20 h

10 W - CREE high-performance LED

High-efficiency reflector system for optimum light output

Dust and water protection to IP67 and impact-resistant up to 1 metre drop height

4 light functions: Boost | 100% | 30% | Strobe

Incl. 4x Mignon AA alkaline batteries

Part No. 1600-0162

LIGHT FUNCTIONS

WHAT DO THE DIFFERENT LIGHT FUNCTIONS MEAN?



BOOST

Boost mode gives you extremely high luminosity for a short time to illuminate the surroundings with the maximum amount of light



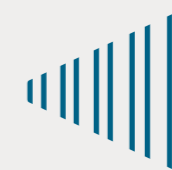
STROBE

You can use the stroboscope function for efficient passive self-defence. The potential attacker is disorientated and dazzled by the stroboscope.



FULL POWER

A high luminous flux makes it possible to illuminate the surroundings at a wide angle or over long distances.



MORSE

Tactical light signals up to the Morse alphabet can be sent with the Morse function. The lamp only lights up as long as the button is pressed.



LOW POWER

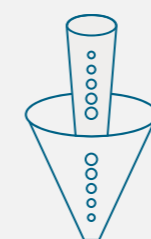
Less is more, especially at close range. Low-power mode can be used to avoid glare in your own eyes and to save energy and maximise runtime.



All technical data - see page 242

OUTDOOR

TORCH FEATURES



STEPLESS QUICK ZOOM

Sometimes it is necessary to use the torch at close quarters and sometimes to illuminate objects at great distances. Simply slide the lamp head to quickly and easily adjust the ultra-homogeneous light beam from point-focus to wide-angle.



LIGHT FUNCTION DIMMABLE

It is sometimes worthwhile to operate as less than 100% brightness, and not only for energy-saving reasons. Less is often more, especially when it comes to close-range illumination. This avoids dazzling reflections and overexposure. With the infinitely variable dimming, you always have the perfect amount of light at your disposal.



DYNAMIC LIGHT

In many professional applications, suitable lighting is fundamentally vital. Pressing the button for a longer period dims the light seamlessly from 100% lighting power to 20% brightness.



RECHARGEABLE LI-ION BATTERY

A rechargeable Li-ion battery not only serves as a reliable and powerful source of energy, but can also be replaced at any time thanks to the lamp's modular design. So you decide: charge your battery conveniently directly via the connection in the lamp or change the battery and charge the empty cells in the external charger.







T350FR

Rechargeable

All-rounder

The high-performance Future T350FR torch has been designed specially for demanding users and is the first choice for everyone who wants a handy and yet bright torch. The energy-saving and highly efficient CREE® LED provides enormous brightness and lighting range.

 300 lm  110 m  5.5 h  Recharge

5 W - CREE high-performance LED

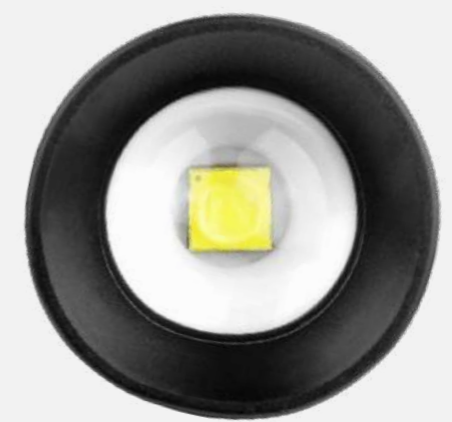
Seamless focussing by sliding the lamp head

Integrated USB plug for direct charging with standard USB port

Battery charge status indicator integrated into the button

4 light functions: 100% | 20% | Strobe | Dimming function

Part No. 1600-0247



All technical data
see page 244

MULTI 3IN1



220 lm



184 m



11 h

Multifunctional light with 10 W LED

Seamless focussing by sliding the Lamp head

Three lights in one lamp - focusable torch, work light and flashing signal light

Strong holding magnet for attachment to metal

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0137

T50F

60 lm 75 m 2.5 h

Aluminium torch with 3 W LED

Seamless focussing by sliding the lamp head

Extra small and space-saving

Ideal for one-handed operation thanks to the non-slip surface

Incl. 1x Mignon AA alkaline battery

Part No. 1600-0159



T120

130 lm 75 m 4 h

Aluminium penlight with 3 W LED

Splash-proof to IP54

Uses latest LED technology

Highly efficient reflector system for optimum light output

Incl. 2x Micro AAA alkaline batteries

Part No. 1600-0160



T150

150 lm 150 m 10 h

Aluminium torch with 3 W LED

Splash-proof to IP54 and impact-resistant up to 1 metre drop height

Latest CREE LED technology

High-efficiency reflector system for optimum light output and range

Incl. 2x Mignon AA alkaline batteries

Part No. 1600-0145

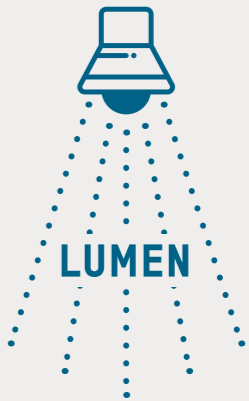


LUX & LUMEN

WHAT IS THE DIFFERENCE?



Lux describes how much light from the light source reaches a certain area. There are defined values and guidelines for this.



Lumen describes the amount of light emitted by the LED lamp in all directions. The more lumens the lamp has, the brighter it is.

T200F

200 lm 175 m 13 h



3 W - CREE high-performance LED

Seamless focussing by sliding the lamp head

Splash-proof to IP54 and impact-resistant up to 1 metre drop height

2 light functions: 100% | 30%

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0138

T300F

320 lm 110 m 7 h



5 W - CREE high-performance LED

Fast, stepless focussing by turning the lamp head

Splash-proof to IP54 and impact-resistant up to 1 metre drop height

Low power consumption and reduced heat development

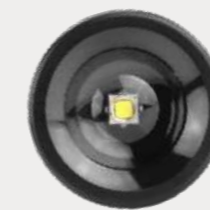
Incl. 2x Baby C alkaline batteries

Part No. 1600-0202

T400FR

versatile and rechargeable

1000 lm 190 m 95 h Recharge



10 W - CREE high-performance LED

Seamless focussing by sliding the lamp head

Rechargeable battery system - Rechargeable battery interchangeable

4 light functions: 100% | 30% | Strobe | SOS function

Incl. exchangeable 18650 Li-Ion rechargeable battery pack

Part No. 1600-0150

T500F

strong, grippy and durable

970 lm 195 m 45 h



10 W high-performance LED

Fast, stepless focussing by turning the lamp head

Super-long runtime thanks to powerful Mono D alkaline batteries

Perfect for security services

Incl. 3x Mono D alkaline batteries

Part No. 1600-0203

T600FRB

5 W - CREE high-performance LED

Seamless focussing by sliding the lamp head

Can be used with alkaline batteries or with an 18650 Li-Ion rechargeable battery

5 light functions: 100% | 25% | 10% | Strobe | SOS function

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0268

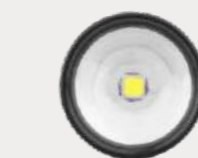
620 lm

165 m

27 h



Recharge

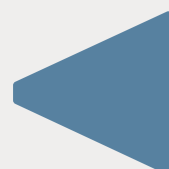


3x AAA Batteries

Or 1x 18650 Li-Ion rechargeable battery

LIGHT FUNCTIONS

WHAT DO THE DIFFERENT LIGHT FUNCTIONS MEAN?



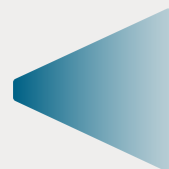
FULL POWER

A high luminous flux makes it possible to illuminate the surroundings at a wide angle or over long distances.



LOW POWER

Less is more, especially at close range. Low-power mode can be used to avoid glare in your own eyes and to save energy and maximise runtime.



DIM

Pressing the button for a longer period dims the light seamlessly from 0-100%.



STROBE

You can use the stroboscope function for efficient passive self-defence. The potential attacker is disorientated and dazzled by the stroboscope.



SOS

The international SOS symbol from the Morse alphabet is stored in the light as a pre-programmed light sequence and can be called up using a switch.

All technical data - see page 245



300B

Practical & effective Daily Use

The ANSMANN Daily Use 300B was developed for a wide range of uses and is an indispensable companion in everyday life. It is amazingly bright and is ideal for domestic use such as basement tasks, power cuts, clear-outs, redecorating, an evening walk or many other occasions.



315 lm

 172 m



41 h

5 W LED with efficient reflector system

Very non-slip surface and large switch for one-handed operation

IPX4 splash-proof housing made of robust aluminium

2 light functions:
High power | Low power

Incl. 2x Baby C alkaline batteries

Part No. 1600-0430



All technical data
see page 246

DAILY USE 50B

55 lm 36 m 16.5 h

3 W LED with efficient reflector system

Super bright and so small that it is guaranteed to fit anywhere

IPX4 splash-proof housing made of robust aluminium

Very non-slip surface and large switch

Incl. 1x Micro AAA alkaline battery

Part No. 1600-0426



DAILY USE 70B

70 lm 67 m 30 h

3 W LED with efficient reflector system

Super bright and so small that it is guaranteed to fit anywhere

IPX4 splash-proof housing made of robust aluminium

Very non-slip surface and large switch

Incl. 1x Mignon AA alkaline battery

Part No. 1600-0427



DAILY USE 150B

150 lm 101 m 20 h

3 W LED with efficient reflector system

Compact and super bright, ideal for the handbag or toolbox

IPX4 splash-proof housing made of robust aluminium

Very non-slip surface and large switch

Incl. 2x Mignon AA alkaline batteries

Part No. 1600-0428



DAILY USE 270B

275 lm 96 m 36 h

5 W LED with efficient reflector system

Compact and super bright, ideal for the handbag or toolbox

IPX4 splash-proof housing made of robust aluminium

Very non-slip surface and large switch

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0429



ACCESSORIES FOR YOUR TORCH

UNIVERSAL HOLSTER



Lamp diameter up to 34 mm

Lamp length up to 150 mm

3 different locking heights adjustable

Suitable for M-series, T-series and Daily Use

Part No. 1600-0017

UNIVERSAL LAMP HOLDER

Lamp diameter from 25 - 34 mm

Suitable for M-series, T-series and Daily Use

Part No. 1600-0080



HEAD- LIGHTS

FEATURES

Head lamps show you the way - whether jogging or cycling, for rescue services, mountaineers or technicians. With the ANSMANN head lights, you have both hands free and the light is always in the right place.



ADJUSTABLE LAMP HEAD

Shine your head lamp exactly where you need the light. Our adjustable lamp heads allow the light cone to be optimally directed to your working and viewing area.



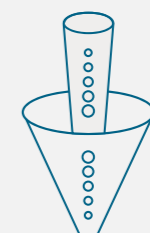
SENSOR MODE

In many situations it is important to have both hands free. So, we have developed a switch that allows the headlamp to be switched on and off with a simple swipe gesture. To activate and deactivate the sensor, simply click on the sensor switch.



3-YEAR GUARANTEE

We are confident in our developments and products - and in their quality and performance. That is why we grant an extended manufacturer's guarantee on our lights. As a result, our customers are always on the safe side in the event of a defect.



STEPLESS QUICK ZOOM

Sometimes it is necessary to use the HD450RS lamp at close quarters and sometimes to illuminate objects at great distances. Simply turn the lamp head to quickly and easily adjust the ultra-homogeneous light beam from point-focus to wide-angle.







HD450FRS

Handsfree thanks to sensor

Head miracle

Professional head lamps are not only well loved in everyday use by joggers and cyclists, but also in industry, by tradesmen, the emergency services, when camping, climbing and fishing. Thanks to the integrated sensor, both hands remain free and the light is always at just the right spot!

 450 lm  92 m  12 h  Recharge

High-quality LED technology with 5 W LED

Integrated Li-Ion rechargeable battery pack with 3.7 V and 1400 mAh (5.18 Wh)

Sensor technology – simple to switch on and off with hand-gesture control

The lamp head can be individually adjusted with an incline angle up to 45°

Focusable for close-range and long-range illumination

Rubberised headband, flexibly adjustable, for a comfortable fit

IK07 and IP65 protection against impacts and water jets

3 light functions: 100% | 50% | Low mode | Seamlessly dimmable

Part No. 1600-0528



All technical data - see page 247



65 lm



80 m



36 h

HD70B

3 W high-performance LED and additional LEDs for optimum illumination

Up to 45° individually adjustable tilt angle

Splash-proof to IP44

3 light functions: Main LED 100% | 25% | Auxiliary LED 100%

Incl. 1x Mignon AA alkaline battery

Part No. 1600-0260

HD120B

1 W COB LED for optimum illumination

Small and light housing

Flexible and adjustable head band

2 light functions: 100% | 30%

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0357



185 lm



50 m



17 h

HD200B

3 W high-power LED and COB LED for optimum illumination

Up to 45° individually adjustable tilt angle

Splash-proof to IP44

4 light functions: 100% high power mode | 100% 3 W LED | 100% COB LED | 30% COB LED

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0198



125 lm



14 m



15 h

HD230BS

Super-bright 5 W LED and red COB LED for optimum illumination

Up to 45° individually adjustable tilt angle

Dust and splash-proof to IP54

Sensor technology – simple to switch on and off with hand-gesture control

3 light functions: 30% | 100% | Red COB LED

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0386



230 lm



74 m



25 h



HD250RS

3 W high-performance LED and additional LEDs for optimum illumination

Integrated battery pack with 3.7 V and 1200 mAh (4.44 Wh)

Up to 45° individually adjustable tilt angle

Sensor technology – simple to switch on and off with hand-gesture control

4 light functions: 100% COB & Cree LED | 100% Cree LED | 100% COB LED | 30% COB LED

Part No. 1600-0224



250 lm



51 m



9 h



Recharge



All technical data - see page 247

WORK LIGHTS

FEATURES

ANSMANN work lights are the professional companion for your work. The flexible lights with the latest LED technology are indispensable, especially for repair work in workshops, trade and industry.



**MAGNETIC
ATTACHMENT**

Align your lights precisely to your working and viewing area. Strong holding magnets and various hooks on the work lights give you several options for attaching the light to your workstation.



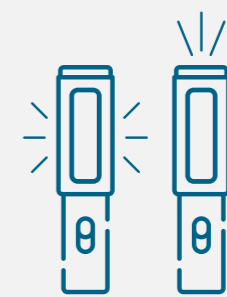
**RECHARGEABLE
LI-ION BATTERY**

A permanently installed lithium-ion rechargeable battery ensures long lighting duration and constant brightness. The lamp can be charged directly at the socket using a universal USB charger or in the vehicle using a car adapter.



**WARNING
FLASHING MODE**

ANSMANN work lights are not only impressive in the workshop or on the building site. Various models also have a hazard warning light mode to safeguard against breakdowns, accidents or other dangerous situations in the dark.







**2in1
FUNCTION**

This combination enables efficient task lighting for different requirements. The main light has a wide beam angle and distributes light evenly over a large area, while the additional light on the lamp head serves as a powerful precision light.

Swivelling Workhorse

The HS20R Pro is a robust and reliable, rechargeable battery powered portable spotlight suitable for industrial or commercial use, hunting or security services. The flashing function and the orange filter disc provided mean that the spotlight is ideal for use as a warning light as the lamp head can be tilted through 90°.

 1700 lm  470 m  10 h  Recharge

Extremely bright with 3 LEDs (CREE LED) and a power of max. 20 W

Permanently installed li-ion rechargeable battery (3.7 V / 10,400 mAh)

Stepless dimming, warning light function and separate selection of light sources

An extra powerful mounting magnet fastens the lamp to any metallic object

Can also be used as an emergency light by activating the mains failure function

Part No. 1600-0223







HS20R PRO

All technical data
see page 248



HS5R

versatile and rechargeable

 420 lm
  500 m
  9.5 h
  Recharge

Extremely bright thanks to the latest 5 W LED technology from CREE

Permanently installed lithium rechargeable battery (3.7 V / 2600 mAh)

3 light functions: 100% light intensity | 25% light intensity | Flashing light

An extra powerful mounting magnet fastens the lamp to any metallic object

Can also be used as an emergency light by activating the mains failure function

Part No. 1600-0222

HS230B

3 W LED main light for an extremely bright and focussed light image at long range

3 W COB LED work light for a widely diffused light image at close range


Multifunctional use thanks to the adjustable handle and the stand that can be angled by 90°

Made from robust ABS plastic

Incl. 3x Mignon AA alkaline batteries

Part No. 1600-0441

 210 lm

 213 m

 8.5 h



ACCESSORIES

FOR YOUR WORK LIGHT

CARRYING STRAP HAND LAMP

Suitable for HS5R & HS20R Pro

Carrying length individually adjustable from 50 cm to 75 cm

Total strap length approx. 160 cm

Part No. 1600-0022



All technical data - see page 248



Flexible

Lighting miracle

With its bright main light, the professional work lamp provides large-area illumination, while the flexible light arm with spot LED directs precise light exactly where it is needed. Thanks to the integrated hook and built-in magnets, the lamp can be easily hung up and securely fastened.



Outstanding light output with wide beam angle thanks to 15 W COB LED

Fold-out suspension hook and integrated holding magnets

30 cm flexible light arm with 3 W spot LED

4 light functions:
100% | 50% | 25% | Spot LED 100%

Permanently installed li-ion rechargeable battery (3.7 V / 4.400 mAh)

Part No. 1600-0565



WL1500R POCKET FLEX

All technical data
see page 249

IL150B

Long-lasting 3 W COB LED with a highly homogeneous working light

Additional 1 W LED in the lamp head for multifunctional use

Adjustable retaining clip with strong magnet and non-slip ABS plastic housing

3 light functions: TOP LED 100% | COB LED 100% | COB LED 30%

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0211

PL130B

High-quality 3 W SMD LED main light

Additional 1 W SMD LED in the lamp head

Small and handy in pen format, perfect for illuminating hard-to-reach areas

The ideal companion in work jackets or inspection cases

Mounting clip with integrated magnet

Incl. 2x Micro AAA alkaline batteries

Part No. 1600-0385



150 lm

16 m

20 h

130 lm

16 m

7 h

IL300R

multifunctional,
rechargeable

600 lm 55 m 10 h Recharge



Professional workshop light with 6x 1 W SMD LEDs

Additional 1 W LED in the lamp head for multifunctional use

Permanently installed lithium rechargeable battery (3.7 V / 2500 mAh)

Can be swivelled through 180°, lamp grip can be locked in eight positions for flexible direction of the light

3 holding magnets and 2 fold-out, 360° rotating hooks

Part No. 1600-0152

WL230B

robust, bright
and multifunctional

230 lm 30 m 7 h



Workshop lamp with the latest 3 W COB LED technology

Additional 1 W LED in the lamp head for multifunctional use

Swivelling lamp body, locking base with integrated magnets and clip function

Fold-out, hook that can be swivelled through 360°

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0355





WL210B

210 lm 45 m 12 h



Professional workshop light with 3 W COB LED

Additional 1 W SMD LED in the lamp head for multifunctional use

Ultra-strong mounting magnet and fold-out hanging eye on the underside of the grip

180° pivoting light handle enables flexible direction of the light

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0387



WL250B

215 lm 19 m 7.5 h



Professional workshop lamp with the latest 3 W COB LED technology

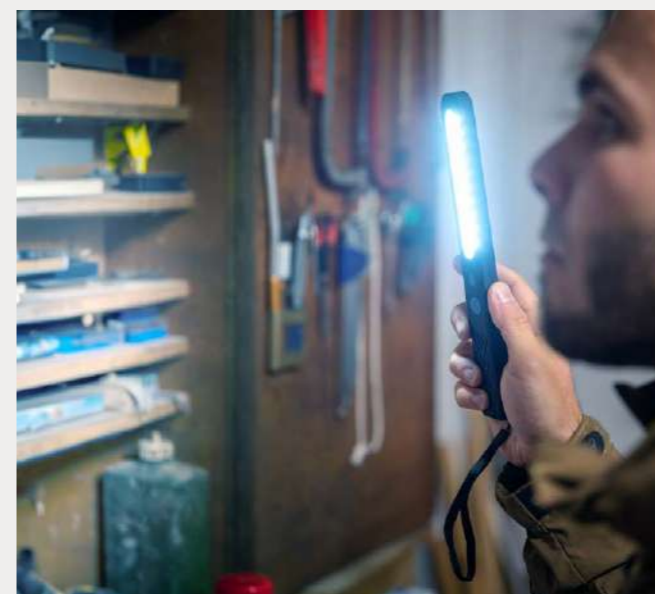
Additional 1 W LED in the lamp head for multifunctional use

3 mounting magnets on the rear of the lamp

Robust and shock-resistant plastic housing

Incl. 3x Micro AAA alkaline batteries

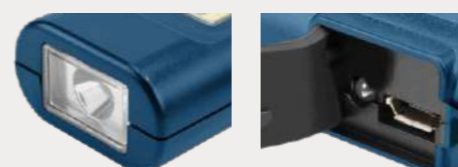
Part No. 1600-0265



WL450R

compact,
magnetic, handy

490 lm 31 m 23 h Recharge



Professional workshop lamp with 4 W COB LED technology

Additional 3 W LED in the lamp head for multifunctional use

Integrated Li-ion 3.7 V rechargeable battery with safety electronics

ABS plastic housing, resistant to mechanical stresses

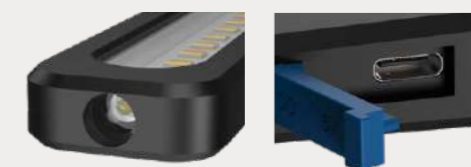
Incl. Micro-USB charge cable

Part No. 1600-0304

WL390R

robust, bright
and multifunctional

385 lm 36 m 5 h Recharge



Workshop light with 5 W SMD LED technology with two colour temperatures (warm white / cold white)

Additional 3 W LED in the lamp head for multifunctional use

Permanently installed lithium rechargeable battery (3.7 V / 1200 mAh)

Stepless dimming function

2 mounting magnets on the rear of the lamp

Part No. 1600-0440



All technical data - see page 249

FLOOD- LIGHTS

FEATURES

Our floodlights are professional spotlights with SMD LED technology. The reliable lamp integrates itself seamlessly into challenging everyday use, for work in and around the home, e.g. in workshops, construction sites, industry, household, garden, yard or garage.



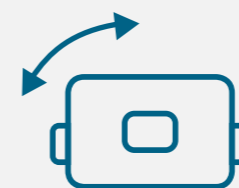
LARGE
BEAM ANGLE

For optimum room illumination, it is very important that the beam angle of the light source is as wide as possible. ANSMANN worklights and floodlights feature state-of-the-art LED technology with a beam angle of up to 115°.



RECHARGEABLE
LI-ION BATTERY

A permanently installed lithium-ion rechargeable battery ensures long lighting duration and constant brightness. The lamp can be charged directly from the socket with the charger provided.



CAN BE
SWIVELLED
360°

Your day-to-day work, your projects and construction sites always bring new challenges. The ANSMANN work lights can be rotated and aligned 360° so that you can be as flexible as possible when it comes to illumination.



10-YEAR
GUARANTEE

We are confident in our developments and products - and in their quality and performance. That's why we grant an extra-long manufacturer's guarantee of 10 years (excluding battery) on our work lights.

LUMINARY FLEX



Rechargeable work floodlight with SMD LEDs

Integrated Li-ion rechargeable battery pack with safety electronics

Three brightness levels can be selected via the on/off switch

LED rechargeable battery capacity indication – checking the available capacity

Versatile use thanks to the sturdy adjustment bracket - the adjustable support can be adjusted up to 80°, and the light head a full 360°



LUMINARY BASE



Work floodlight with SMD LEDs

Integrated 1.8 m long H07RN-F rubber cable for flexible use, even outdoors

Robust aluminium and ABS housing – extremely shock-resistant

Versatile use thanks to the sturdy adjustment bracket - the adjustable support can be adjusted up to 80°, and the light head a full 360°



FL800R 10 W SMD LEDs 7.4 V / 2200 mAh Li-Ion rechargeable battery pack 800 lm luminosity <i>Part No. 1600-0274</i>	 800 lm	FL1600R 20 W SMD LEDs 7.4 V / 4400 mAh Li-Ion rechargeable battery pack 1.600 lm luminosity <i>Part No. 1600-0275</i>	 1.600 lm	FL2400R 30 W SMD LEDs 11.1 V / 4400 mAh Li-Ion rechargeable battery pack 2.400 lm luminosity <i>Part No. 1600-0276</i>	 2.400 lm	FL4500R 150 W SMD LEDs 11.1 V / 6600 mAh Li-Ion rechargeable battery pack 4.500 lm luminosity <i>Part No. 1600-0402</i>	 4.500 lm
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FL800AC 10 W SMD LEDs 800 lm luminosity <i>Part No. 1600-0277</i>	 800 lm	FL1600AC 20 W SMD LEDs 1.600 lm luminosity <i>Part No. 1600-0278</i>	 1.600 lm	FL2400AC 30 W SMD LEDs 2.400 lm luminosity <i>Part No. 1600-0279</i>	 2.400 lm	FL4500AC 50 W SMD LEDs 4.500 lm luminosity <i>Part No. 1600-0403</i>	 4.500 lm	FL7200AC 80 W SMD LEDs 7.200 lm luminosity <i>Part No. 1600-0404</i>	 7.200 lm
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ACCESSORIES FOR YOUR WORK LIGHTS

UNIVERSAL TRIPOD

Suitable for FL800R, FL1600R, FL2400R, FL800AC, FL1600AC, FL2400AC and FL20W-AC, FL50W-AC, FL100W-AC, FL150W-AC

Can be used for 1-2 work floodlights

Height can be extended up to 137 cm

Highly stable, stand diameter up to 120 cm

Part No. 1600-0315



THE NEW SERIES

FROM AUGUST 2024



FLOODLIGHTS

With a much brighter light output than their predecessor models and an easily lockable base for flexible light angle adjustments, these spotlights illuminate every corner of your construction site. The attractive new design in elegant anthracite rounds off the overall package perfectly.



**EVEN
BRIGHTER**

**IP65
IK07**

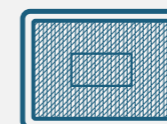
**HIGHER
PROTECTION CLASS**



**EASILY
LOCKABLE**



**SOFT CARRYING
HANDLE**



**ANTI-GLARE
GLASS SURFACE**



**HIGHER ENERGY
EFFICIENCY**

LUMINARY FLEX



- Rechargeable work floodlight with SMD LEDs
- Integrated Li-ion rechargeable battery pack with safety electronics
- Two brightness levels can be selected via the on/off switch
- LED rechargeable battery capacity indication – checking the available capacity
- Versatile use thanks to the sturdy adjustment bracket - the adjustable support can be adjusted up to 70°, and the light head a full 360°


Rechargeable


5000 K



IP 54


LUMINARY BASE




- Work floodlight with SMD LEDs
- Integrated 1.8 m long H07RN-F rubber cable for flexible use, even outdoors
- Robust aluminium and ABS housing – extremely shock-resistant
- Versatile use thanks to the sturdy adjustment bracket - the adjustable support can be adjusted up to 80°, and the light head a full 360°
- Fluted glass surface protects against glare and ensures homogeneous illumination
- Stand with integrated tripod mounting device


Power plug


5000 K


IP 65



FL20W-R


2.000 lm

- 20 W SMD LEDs
- 3.7 V / 4400 mAh Li-Ion rechargeable battery pack
- 2.000 lm luminosity
- Part No. 1600-0616

FL50W-R


4.500 lm

- 50 W SMD LEDs
- 3.7 V / 4400 mAh Li-Ion rechargeable battery pack
- 4.500 lm luminosity
- Part No. 1600-0630

FL20W-AC


2.200 lm

- 20 W SMD LEDs
- 800 lm luminosity
- Part No. 1600-0632

FL50W-AC


5.400 lm

- 50 W SMD LEDs
- 5.400 lm luminosity
- Part No. 1600-0627

FL100W-AC


12.000 lm

- 100 W SMD LEDs
- 12.000 lm luminosity
- Part No. 1600-0628

FL150W-AC


18.000 lm

- 150 W SMD LEDs
- 18.000 lm luminosity
- Part No. 1600-0629



All technical data - see page 252

WALL SPOTLIGHT

FEATURES

Our floodlights are professional spotlights with SMD LED technology. The reliable lamp integrates itself seamlessly into challenging everyday use, for work in and around the home, e.g. in workshops, construction sites, industry, household, garden, yard or garage.



**SENSOR
CONTROLLED**

ANSMANN wall spotlight switches on automatically - the sensor covers movements in an area of up to 12 metres, ensuring that no one is left groping around in the dark. The lighting time and sensitivity are freely adjustable.



**LARGE
BEAM ANGLE**

The beam angle of the wall spotlights is 110°, whereby the lamp head can be infinitely adjusted to your local conditions for ideal illumination.



**FOR INSIDE &
OUTSIDE**

The integrated H05RN-F cable enables a firm and flexible connection with low mechanical stresses in dry, damp and wet rooms. As a result, the spotlight is ideal for use in indoor and outdoor areas as it can withstand these conditions at all times.



**10-YEAR
GUARANTEE**

We are confident in our developments and products - and in their quality and performance. That's why we offer an extra-long manufacturer's guarantee of 10 years on our work lights.

LUMINARY HOME



Spotlight for wall mounting with SMD LEDs

Full power straight away thanks to the latest SMD LED technology

The angle of the spotlight is 190° vertically adjustable

Integrated H05RN-F cable with a length of 20 to 30 cm for fixed and flexible connection



5000 K



IP 54



WFL800



800 lm

10 W SMD LEDs

800 lm luminosity

Part No. 1600-0280

WFL1600



1.600 lm

20 W SMD LEDs

1.600 lm luminosity

Part No. 1600-0281

WFL2400



2.400 lm

30 W SMD LEDs

2.400 lm luminosity

Part No. 1600-0282

LUMINARY SENSE

Spotlight for wall mounting with SMD LEDs

Movement detector with a detection range of up to 12 m and a detection angle of 180° horizontally and 90° vertically

Adjustable lighting intensity - the lighting characteristics at which the floodlight should activate can be adjusted at any time

The lighting time can be set from ca. 10 sec. to up to 5 min.

The angle of the spotlight is 190° vertically adjustable



5000 K



IP 54



WFL800S



800 lm

10 W SMD LEDs

800 lm luminosity

Part No. 1600-0283

WFL1600S



1.600 lm

20 W SMD LEDs

1.600 lm luminosity

Part No. 1600-0284

WFL2400S



2.400 lm

30 W SMD LEDs

2.400 lm luminosity

Part No. 1600-0285



All technical data - see page 251

THE NEW SERIES

FROM AUGUST 2024



WALL SPOTLIGHT

Discover our new range of wall spotlights that leave nothing to be desired in terms of brightness, safety and design. The new wall spotlights are not only brighter than ever before, but also impress with their compact design and higher protection class.



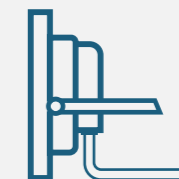
**EVEN
BRIGHTER**

**IP65
IK07**

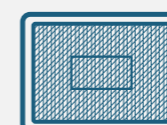
**HIGHER
PROTECTION CLASS**



**SMALLER
CONSTRUCTION**



**CABLE QUICK
CONNECTION**



**ANTI-GLARE
GLASS SURFACE**



**HIGHER ENERGY
EFFICIENCY**

LUMINARY HOME



Spotlight for wall mounting with SMD LEDs

Full power straight away thanks to the latest SMD LED technology

The angle of the spotlight is 180° vertically adjustable

Very flat design

Fluted glass surface protects against glare and ensures homogeneous illumination



5000 K



IP 65



WFL10W



1.050 lm

10 W SMD LEDs

1.050 lm luminosity

Part No. 1600-0624

WFL20W



2.200 lm

20 W SMD LEDs

2.200 lm luminosity

Part No. 1600-0625

WFL30W



3.300 lm

30 W SMD LEDs

3.300 lm luminosity

Part No. 1600-0626



All technical data - see page 253

LUMINARY SENSE



Spotlight for wall mounting with SMD LEDs

Movement detector with a detection range of up to 10 m and a detection angle of 180°

Adjustable lighting intensity - the lighting characteristics at which the floodlight should activate can be adjusted at any time

The lighting time can be set from ca. 10 sec. to up to 5 min.

The angle of the spotlight is 180° vertically adjustable

Fluted glass surface protects against glare and ensures homogeneous illumination



5000 K



IP 65



WFL10W-S



1.050 lm

10 W SMD LEDs

1.050 lm luminosity

Part No. 1600-0621

WFL20W-S



2.200 lm

20 W SMD LEDs

2.200 lm luminosity

Part No. 1600-0622

WFL30W-S



3.300 lm

30 W SMD LEDs

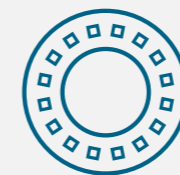
3.300 lm luminosity

Part No. 1600-0623



CAMPING & DECO

FEATURES



O-RING LED LIGHTING

With our camping lights and the built-in professional 360° O-ring LED, you have an evenly illuminated environment in any situation.



PLEASANT COLOUR TEMPERATURE

The camping lights have a pleasant, warm white light that conjures up a cosy atmosphere. The milky glass also guarantees glare-free light.



3-YEAR GUARANTEE

We are confident in our developments and products - and in their quality and performance. That is why we grant an extended manufacturer's guarantee on our lights. As a result, our customers are always on the safe side in the event of a defect.



600 lm



23 m



41 h

CL600B

Professional camping light with high-quality 15 W 0-ring LED

Splash-proof to IPX4

Pleasant warm white colour temperature (3000 K)

Milky coating of the housing reduces glare to a minimum

4 light functions: 20% (white) | Infinitely variable dimming of the white LED (20-100%) | 100% (red LED) | Flashing mode (red LED)

Part No. 1600-0287

CL200B

Professional camping light with high-quality 3 W 0-ring LED

Splash-proof to IPX4

Pleasant warm white colour temperature (3000 K)

Milky coating of the housing reduces glare to a minimum

2 light functions: 100% | 10%

Part No. 1600-0286



175 lm



12 m



94 h



MINI CAMPING LAMP



220 lm



8 m



11.5 h

Robust and practical camping light with 3 W SMD LED

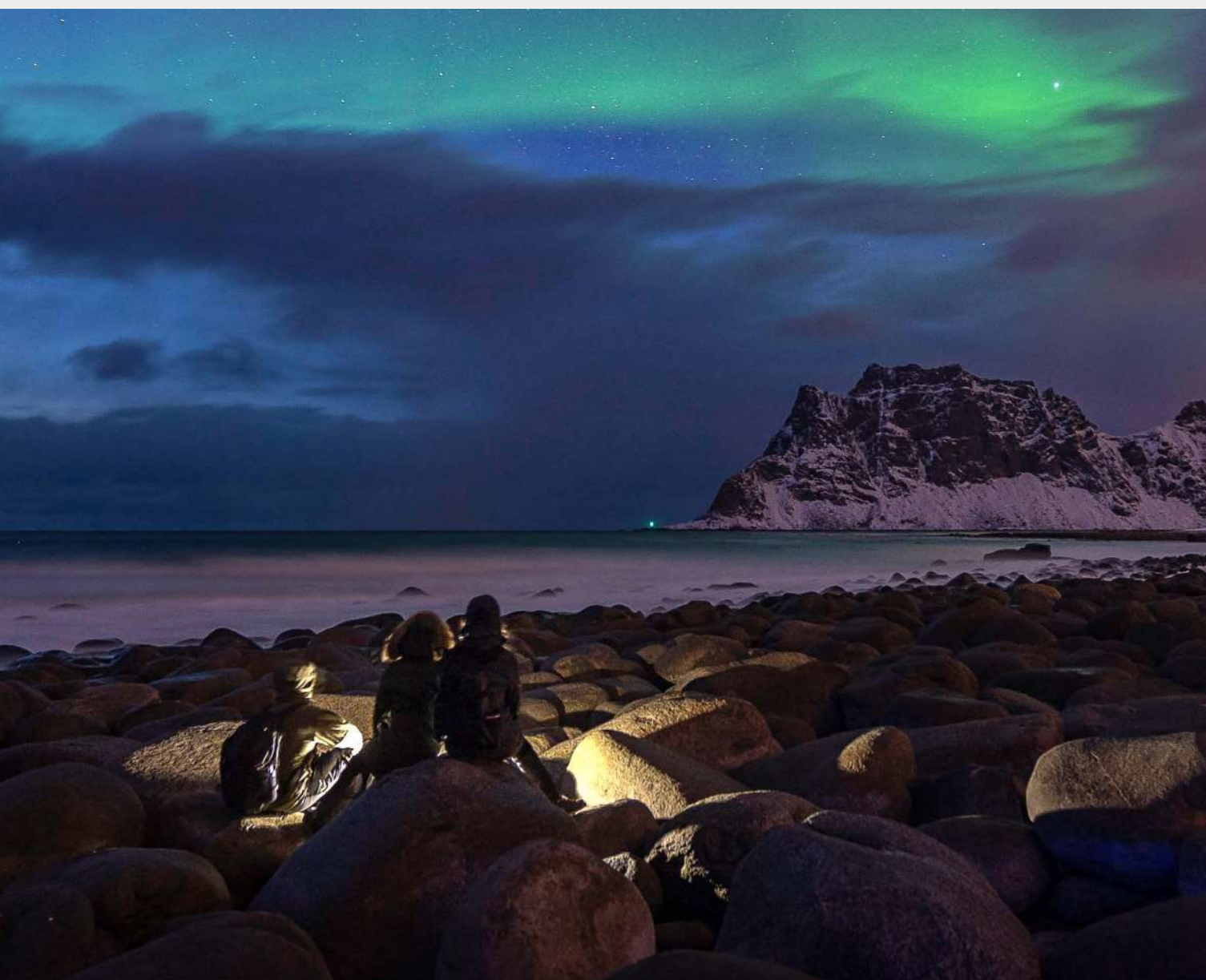
Small and handy format

Integrated hanging bracket including "S" hook for fastening in a tent or similar.

3 light functions: 100% | 50% | Flashing light

Incl. 3x Micro AAA alkaline batteries

Part No. 1600-0388

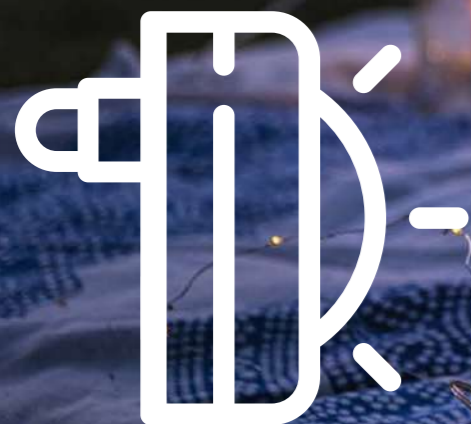


All technical data - see page 254

HOME & OFFICE

FEATURES

You know all those little situations where you think: "I could do with a bit more light here"? Our everyday helpers for the office or home not only give a good feeling of security, but are also more than practical in many situations.



Multifunctional lights



INTEGRATED LASER POINTER

The integrated laser pointer is ideal for lectures and presentations. Make it clear what you want to show with the tested, safe laser.



TOUCHSCREEN STYLUS

The conductive stylus is suitable for operating all devices with a touch-screen. For every smartphone, iPad, iPhone, tablet etc.

Night and orientation lights



TWILIGHT SENSOR

The nightlight reacts to movement and activates and deactivates automatically at twilight thanks to the integrated twilight sensor in the housing. This means that the light only switches on when it is actually dark, saving energy and costs.



MOTION SENSOR

When motion is detected and after dusk, the light switches on and provides brightness for orientation. The light switches off automatically after approx. 20 seconds if no more movement is detected. This saves you energy and costs.



TWINFLEX

Small and handy LED lamp with two goosenecks for reader-friendly illumination

Natural white light with high contrast specially for comfortable reading with no eye strain

The energy saving LED technology guarantees extremely long battery life and optimum lighting

The brightness of each of the two lights can be individually set to three functions (100% | 50% | OFF) adjustable

Flexible attachment due to the mounting clip or mounting magnet on the battery compartment

Part No. 1600-0119



50 lm



95 h



CLIP-LIGHT

Universal LED clip light with gooseneck

9 LEDs with three dimming levels and three light colours (cool white 6000 K, warm white 3000 K, amber 1800 K)

Permanently installed lithium rechargeable battery (3.7 V / 500 mAh)

Rubberised clamp for a firm grip

Can also be attached to smooth metal surfaces thanks to the integrated magnet

Part No. 1600-0531



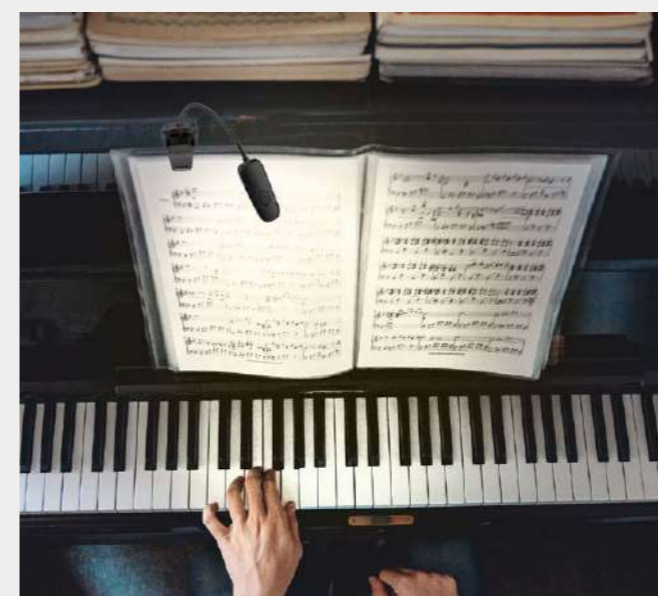
22 lm



12 m



Recharge



RC 2

12 lm 20 m 3 h



Rechargeable torch with 3 LEDs

Integrated, environmentally friendly NiMH rechargeable battery pack

Lamp head can be swivelled through 90° and so can be used universally

Integrated charger for 230 V AC

Part No. 5101173

ACTION COB

175 lm 19 m 6 h



Small, practical aluminium torch with COB LED

Very light construction and simple operation

Ideal for use when out and about

Unbeatable price-performance ratio

Very low power consumption enables long battery life

Part No. 1600-0399

All technical data - see page 255



KEYCHAIN LIGHT

Mini LED torch for the key ring

LED light with long range

Ultra-small with a length of just 5 cm and a diameter of 1 cm

Ultralight: 14.5 g incl. button cells

Elegant yet robust aluminium housing

Part No. 1600-0272

KEYCHAIN 2IN1

Mini laser pointer and key light

LED light with very long range

Laser pointer for lectures and presentations

Ultra-small with a length of just 6 cm and a diameter of 0.9 cm

With practical key chain and carabiner

Part No. 1600-0270



KEYCHAIN KL80R

Mini LED torch for the key ring

Infinitely dimmable from 10-100% light output

Charging with integrated USB-A plug

Elegant yet robust aluminium housing (IPX3 & IK07)

Pendant chain with small carabiner

Part No. 1600-0505

80 lm

10 m

2.5 h

Recharge



MINI LIGHT ML400R

400 lm

55 m

8 h

Recharge

Mini light with 5 W LED

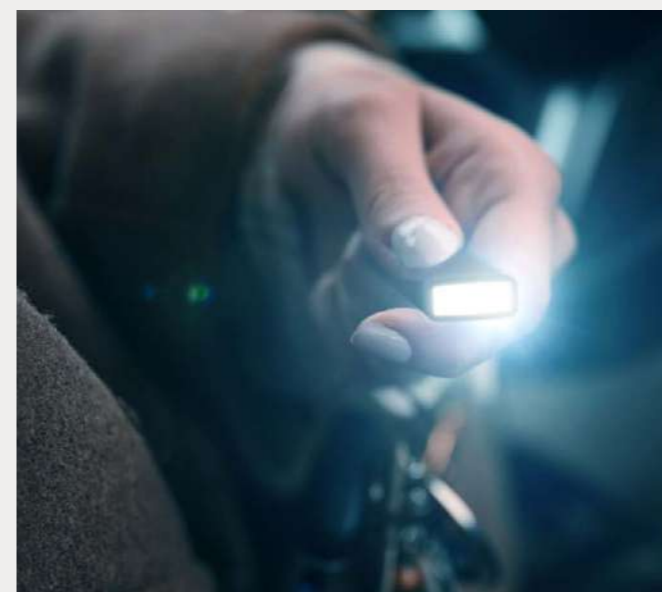
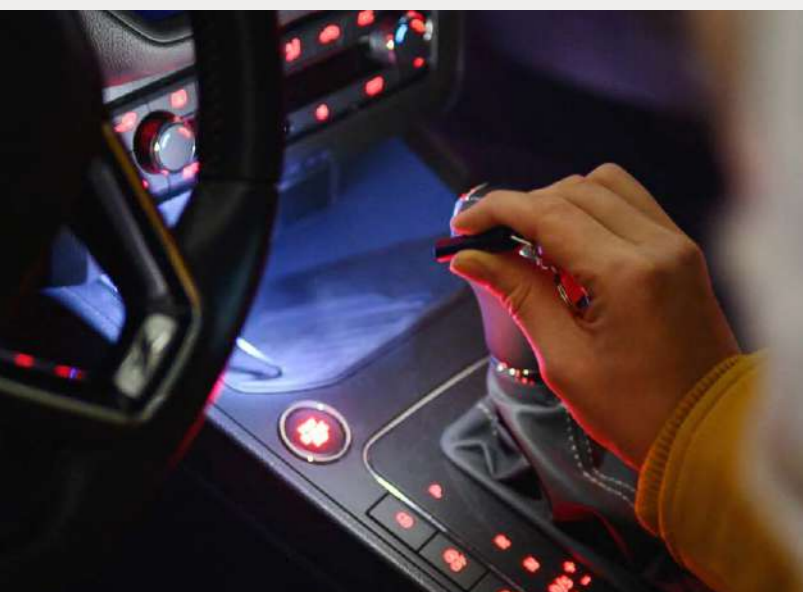
4 light functions: High | Medium | Low & Boost function

Rechargeable via USB Type-C charging socket

Elegant yet robust aluminium housing (IPX4 & IK07)

Integrated retaining magnet, retaining clip and carabiner for universal attachment

Part No. 1600-0597



All technical data - see page 256

LASERPOINTER 4IN1



Laser pointer with 4 different functions

LED light with very long range

Laser pointer for lectures and presentations

Stylus for operating devices with touch screens such as smartphones and tablets

Ballpoint pen for "analogue" correspondence

Part No. 1600-0269

STYLUS TOUCH 4IN1

Multifunction pen with 4 different functions

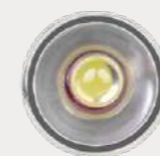
LED light with very long range

Laser pointer for lectures and presentations

Stylus for operating devices with touch screens such as smartphones and tablets

Ballpoint pen for "analogue" correspondence

Part No. 1600-0271



PLC20B LED

13 lm 15 m

Practical LED penlight inspection lamp

Cool white light colour (8000-9000 Kelvin)

Easy to operate in one-handed mode thanks to clip switch

Very low weight and compact dimensions

Incl. 2x Micro AAA alkaline batteries

Part No. 1600-0457



X15

15 lm 20 m

Small and convenient LED penlight

Ideal for work jacket or inspection case

Robust metal housing in attractive and slim design

Large on/off switch for maximum user comfort even when wearing gloves

Incl. 2x Micro AAA alkaline batteries

Part No. 1600-0169



PLC15B BULB

3 lm 6 m

Practical penlight inspection lamp with bulb

Warm white light colour (2200 Kelvin)

Easy to operate in one-handed mode thanks to clip switch

Very low weight and compact dimensions

Incl. 2x Micro AAA alkaline batteries

Part No. 1600-0458

SF-1 SEARCH & FIND STICK

Pointing instrument and illuminated magnet in one

Strong magnet with a load capacity of up to 1 kg

Extendable from 17-66 cm

Luminous tip with long-life LED

Incl. 3x LR41 button cell batteries

Part No. 5000023



All technical data - see page 257

NL25B



25 lm



3x AAA



High-quality 2 W COB LED ensures homogeneous illumination

With integrated switch for selecting the light functions
orientation light and sleep/nightlight

Switch-off after ca. 30 seconds in sensor operation

Fastening with integrated magnets, metal plate and adhesive
foam tape

Long light duration: orientation light approx. 6 h,
sleep/night light, up to 200 h

Part No. 1600-0405

NL15AC + 2USB

Warm white quality SMD LEDs ensure homogeneous illumination

With integrated twilight sensor (CDS) - switches on/off
automatically at dusk

2x USB outputs with 5 W output power each (5 V / 1 A)

Integrated EU mains socket adapter 220 V - 230 V / 50 Hz

Small, light and convenient

Part No. 1600-0407



15 lm



NL10AC

Warm white quality SMD LEDs ensure homogeneous illumination

With integrated twilight sensor (CDS) - switches on/off
automatically at dusk

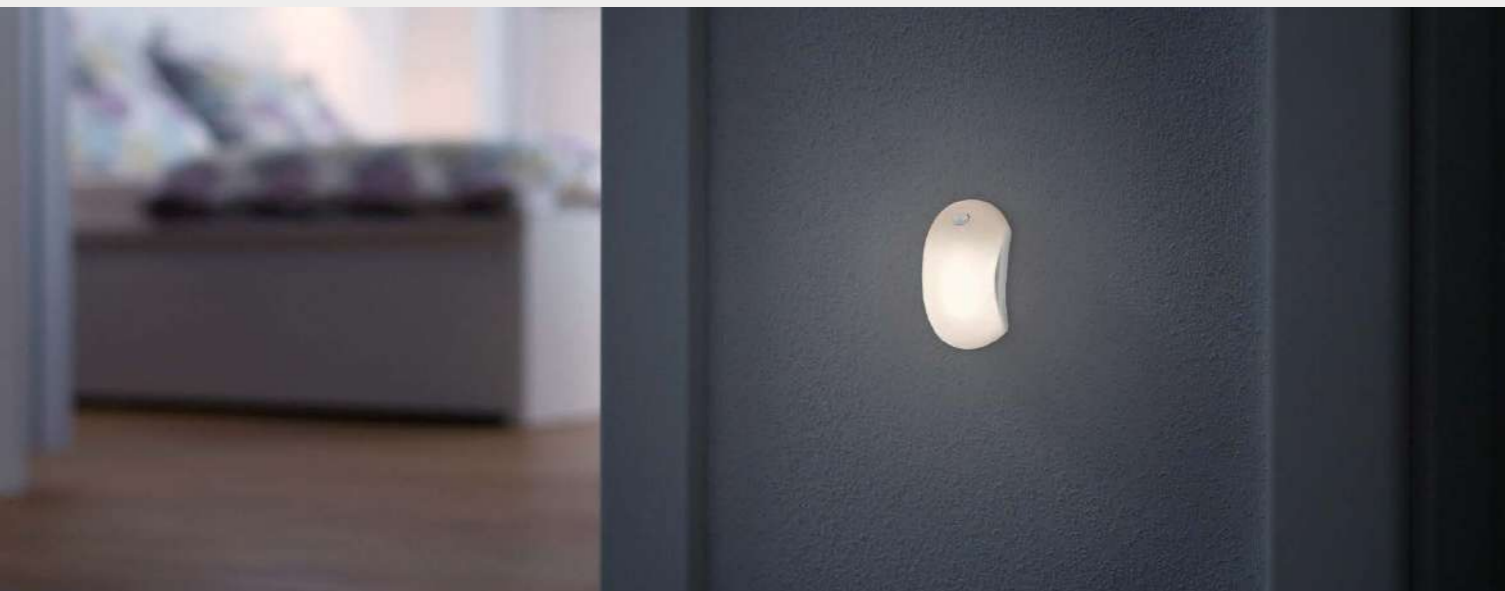
Integrated EU mains socket adapter 220 V - 230 V / 50 Hz

Small, light and convenient

Part No. 1600-0406



5 lm



All technical data - see page 258



LED BAND

2 m long LED strip with 60 LEDs - warm white, ideal for lighting in stairwells, bathrooms, kitchens and for cupboards and shelves

The LED strip can be shortened as required

Adjustable lighting duration ranging from about 15 seconds to around 5 minutes

Flexible mounting thanks to the double-sided adhesive strip

Incl. 4x Micro AAA alkaline batteries, but can also be powered directly via the micro USB port

Part No. 1600-0436

CABINET LIGHTS

Ideal for cupboards, kitchen, bathroom, drawer, hallway, stairs or counter

A choice of 3 colour temperatures (3000 K / 4000 K / 6500 K)

With an integrated motion and twilight sensor - so the light illuminates only when motion is detected in the dark

Stepless dimming possible by holding the push-button

Practical combination of magnetic strips and adhesive tape for attachment to almost all surfaces



LIGHT S

15 cm 8 m 3.5 h

0.3 W SMD LEDs

58 lx lighting intensity

Lithium rechargeable battery (3.7 V / 350 mAh)

Part No. 1600-0437



LIGHT M

25 cm 9 m 4.25 h

0.5 W SMD LEDs

90 lx lighting intensity

Lithium rechargeable battery (3.7 V / 600 mAh)

Part No. 1600-0438



LIGHT L

35 cm 11 m 4.5 h

0.7 W SMD LEDs

115 lx lighting intensity

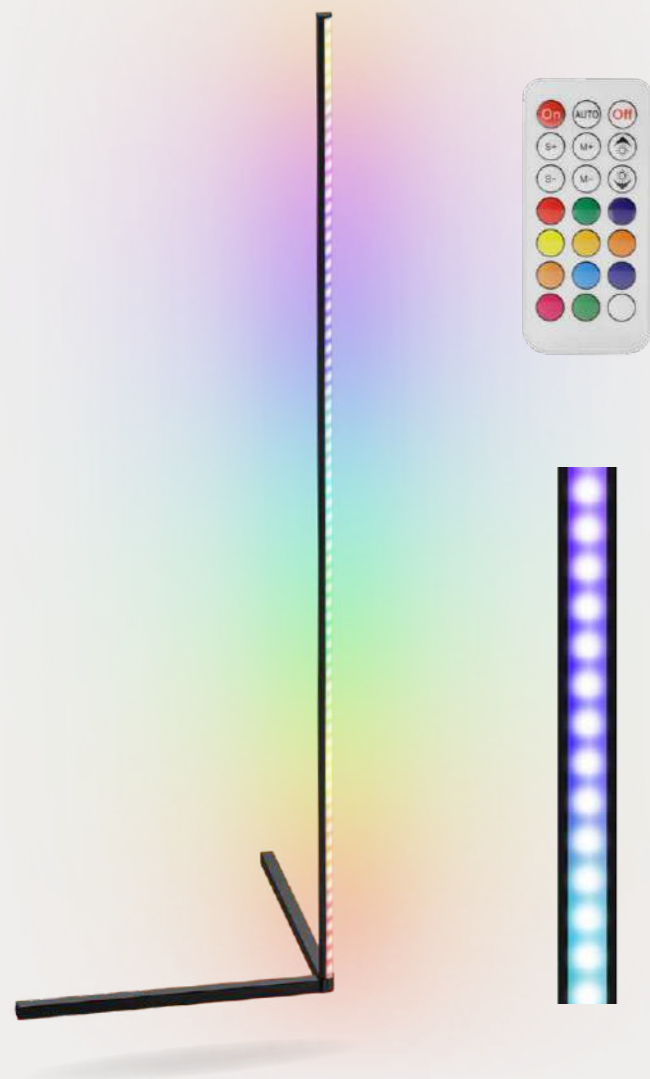
Lithium rechargeable battery (3.7 V / 800 mAh)

Part No. 1600-0439



All technical data - see page 258/259

LED CORNER LIGHT



decorative, dynamic,
energy-saving



Floor lamp for the corner with 84× RGB LEDs as decorative light

Illuminated colours: 12 selectable colours
(red / green / blue / yellow / orange / purple / white)

Colour change: Automatic / fast / gradual / manual

Functions: Dimmable in 8 steps, 366 individually selectable
lighting effect modes, 32 brightness settings, mode + / mode -

Incl. remote control and power supply unit

Part No. 1600-0606



All technical data - see page 259

LED DRAWING BOARD

Illuminated colouring and drawing board with 10× RGB LEDs for
many different LED light functions and as a decorative light

Light colours: red / green / blue / purple / aqua / yellow / white

Colour change: slow / fast / step-by-step / cycle

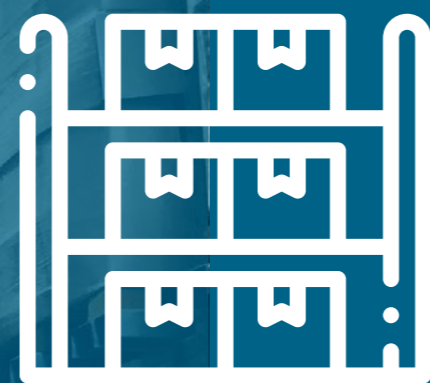
Incl. 20 drawing stencils, 1 cleaning cloth & 6 coloured pencils

Incl. 3x Mignon AA alkaline batteries, but can also be powered
directly via the micro USB port

Part No. 1600-0605



PRODUCT OVERVIEW



Technical details

Compare our products with each other or find important details on the technical specifications of our products. You can find all important data and useful features in the complete overview of our products.

RECHARGEABLE BATTERIES

Details: Page 16

High Capacity Premium



Product	Micro AAA Type 1100	Mignon AA Type 2700	Mignon AA Type 2850	Mono D Type 10000
Electro-chemical system	NiMH	NiMH	NiMH	NiMH
Capacity (mAh)	min. 1050	min. 2650	min. 2650	min. 9300
Voltage (V)	1.2	1.2	1.2	1.2
Packaging type	Bulk		Bulk	Bulk
Batteries included	1		1	1
PU	50		50	10
Part number	5035221		5035201	5030641
Packaging type	Paper blister	Paper blister	Paper blister	Paper blister
Batteries included	2	2	2	2
PU	12	12	12	6
Part number	5035222	5030852	5035202	5030642
Packaging type	Paper blister	Paper blister	Paper blister	
Batteries included	4	4	4	
PU	12	12	12	
Part number	5035232	5030842	5035212	

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MaxE Daily Use



Product	Micro AAA 550	Mignon AA 1300	Baby C 2500	Mono D 5000	9 V E-Block 200
Electro-chemical system	NiMH	NiMH	NiMH	NiMH	NiMH
Capacity (mAh)	550	1300	2500	5000	200
Voltage (V)	1.2	1.2	1.2	1.2	8.4
MaxE technology	•	•	•	•	•
Packaging type	Bulk	Bulk		Bulk	Bulk
Batteries included	1	1		1	1
PU	50	50		10	25
Part number	5030771	5030791		5030921	5035341
Packaging type	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister
Batteries included	4	4	2	2	1
PU	12	12	6	6	6
Part number	5030772	5030792	5030912	5030922	5035342

Details: Page 18

MaxE Premium



Product	Micro AAA 800	Micro AAA Type 1000	Mignon AA 2100	Mignon AA Type 2500	Baby C 4500	Mono D 8500	9 V E-Block Type 300
Electro-chemical system	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH
Capacity (mAh)	800	min. 950	2100	min. 2400	4500	8500	min. 270
Voltage (V)	1.2	1.2	1.2	1.2	1.2	1.2	8.4
MaxE technology	•	•	•	•	•	•	•
Packaging type	Bulk		Bulk	Bulk	Bulk	Bulk	Bulk
Batteries included	1		1	1	1	1	1
PU	50		50	50	25	10	25
Part number	5030981		5030991	5035431	5035351	5035361	5035451
Packaging type	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister
Batteries included	2	2	2	2	2	2	1
PU	12	12	12	12	6	6	6
Part number	5030982	5030892	5030992	5035432	5035352	5035362	5035453
Packaging type	Paper blister	Paper blister	Paper blister	Paper blister			
Batteries included	4	4	4	4			
PU	12	12	12	12			
Part number	5035042	5030882	5035052	5035442			

SPECIAL RECHARGEABLE BATTERIES

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Phone



Product	Micro AAA 550	Micro AAA 800	Mignon AA 800	Mignon AA 1300	Mignon AA Type 1800
Electro-chemical system	NiMH	NiMH	NiMH	NiMH	NiMH
Capacity (mAh)	550	800	800	1300	min. 1600
Voltage (V)	1.2	1.2	1.2	1.2	1.2
MaxE technology	•	•	•	•	•
Packaging type	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister
Batteries included	2	2	2	2	2
PU	12	12	12	12	12
Part number	5035523	5035332	5030902	5030802	1312-0038
Packaging type	Paper blister				
Batteries included	3				
PU	12				
Part number	5030142				

Solar



Product	Micro AAA 550	Mignon AA 800
Electro-chemical system	NiMH	NiMH
Capacity (mAh)	550	800
Voltage (V)	1.2	1.2
MaxE technology	•	•
Packaging type	Paper blister	
Batteries included	2	2
PU	12	12
Part number	1311-0001	5035513

Toy



Product	Micro AAA Type 1000	Mignon AA Type 2700
Electro-chemical system	NiMH	NiMH
Capacity (mAh)	min. 800	min. 2650
Voltage (V)	1.2	1.2
MaxE technology	•	•
Packaging type	Paper blister	
Batteries included	2	2
PU	12	12
Part number	1311-0029	1312-0037

Nickel Zinc



Product	Micro AAA Nickel Zinc	Mignon AA Nickel Zinc
Electro-chemical system	NiZn	NiZn
Capacity (mAh)	900 mWh	2500 mWh
Voltage (V)	1.6	1.6
Packaging type	Shrink	Shrink
Batteries included	4	4
PU	12	12
Part number	1321-0001	1322-0005

Digital



Product	Mignon AA 2850
Electro-chemical system	NiMH
Capacity (mAh)	min. 2650
Voltage (V)	1.2
Packaging type	Paper blister
Batteries included	2
PU	12
Part number	5035082
Packaging type	Paper blister
Batteries included	4
PU	12
Part number	5035092

LI-ION RECHARGEABLE BATTERIES

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Li-ion



Product	Micro AAA Type 500	Mignon AA Type 2000	Baby C Type 2500	Mono D Type 6000	9 V E-Block Type 400
Electro-chemical system	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion
Capacity (mAh)	min. 400	min. 1800	min. 2300	min. 5400	min. 340
Voltage (V)	1.5	1.5	1.5	1.5	9.0
USB type-C connection	•	•	•	•	•
Packaging type	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister
Batteries included	4	4	2	2	1
PU	26	20	14	10	18
Part number	1311-0028	1312-0036	1313-0004	1314-0005	1315-0005

Li-ion



Product	18650 Type 2600	18650 Type 2600	18650 Type 3500	18650 Type 3400	16340 Type 850	16340 Type 850
Electro-chemical system	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion
Capacity (mAh)	min. 2500	min. 2500	min. 3250	min. 3250	min. 800	min. 800
Voltage (V)	3.6	3.6	3.6	3.6	3.6	3.6
USB type-C connection		•	•	•		•
Packaging type	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister
Batteries included	1	1	1	1	1	1
PU	10	10	10	10	10	10
Part number	1307-0000	1307-0002	1307-0001	1307-0003	1300-0017	1300-0015

CAMERA BATTERY PACKS

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Canon



Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A-Can NB 2 LH	Canon NB-2 LH	720	7.4	4	5022673
A-Can NB 4 L	Canon NB-4 L	700	3.7	4	5022263
A-Can NB 5 L	Canon NB-5 L	850	3.7	4	5022953
A-Can NB 6 L	Canon NB-6 L	750	3.7	4	5044453
A-Can NB 7 L	Canon NB-7 L	900	7.4	4	5044523
A-Can NB 11 L	Canon NB-11 L	600	3.7	4	1400-0028
A-Can NB 10 L	Canon NB10L	850	7.4	4	1400-0024
A-Can NB 13 L	Canon NB 13L	1010	3.7	4	1400-0069
A-Can BP 511	Canon BP 511	1400	7.4	4	5022283
A-Can LP E5	Canon LP-E5	1000	7.4	4	5044443
A-Can LP E6	Canon LP-E6	1400	7.4	4	1400-0000
A-Can LP E6 NH	Canon LP-E6 NH	2250	7.4	4	1400-0083
A-Can LP E8	Canon LP-E8	1000	7.4	4	5044853
A-Can LP E10	Canon LP E10	1000	7.4	4	1400-0018
A-Can LP E12	Canon LP-E12	750	7.4	4	1400-0045

Casio



Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A-Cas NP 40	Casio NP 40	1200	3.7	4	5022303/05

Fujifilm



Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A-Fuj NP 45	Fujifilm NP-45	650	3.7	4	1400-0036
A-Fuj NP 95	Fujifilm NP-95	1700	3.7	4	1400-0022
A-Fuj NP-W 126	Fujifilm NP-W 126	1020	7.4	4	1400-0029

Nikon



Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A-Nik EN EL 3e	Nikon EN-EL 3e	1400	7.4	4	5044073
A-Nik EN EL 5	Nikon EN-EL 5	1050	3.7	4	5022333
A-Nik EN EL 9	Nikon EN-EL 9	1200	7.4	4	5044133/05
A-Nik EN EL 10	Nikon EN-EL 10	650	3.7	4	1400-0037
A-Nik EN EL 12	Nikon EN-EL 12	900	3.7	4	5044483
A-Nik EN EL 14	Nikon EN-EL 14	1000	7.4	4	1400-0042
A-Nik EN EL 15	Nikon EN-EL 15	1600	7.0	4	1400-0043
A-Nik EN EL 19	Nikon EN-EL 19	700	3.7	4	1400-0016

Olympus



Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A-Oly BLS 5	Olympus BLS-5	1100	7.4	4	1400-0015
A-Oly BLN 1	Olympus BLN-1	1140	7.4	4	1400-0058
A-Oly LI 42B	Olympus LI-42B	650	3.7	4	5022933/05
A-Oly LI 50B	Olympus LI-50B	850	3.7	4	5044363

Panasonic



Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A- Pan BCG 10 E	Panasonic DMW-BCG 10 E	900	3.7	4	5044593
A-Pan CGA S 005	Panasonic CGA-S 005	1150	3.7	4	5022783/05
A-Pan CGA S006	Panasonic CGA-S 006	750	7.4	4	5022903
A-Pan CGA S 007	Panasonic CGA-S 007	800	3.7	4	5022963
A-Pan BMB 9 E	Panasonic DMW-BMB 9 E	900	7.4	4	1400-0026
A-Pan DMW-BCM13E	Panasonic Lumix DMC-TZ 41, FT 5	950	3.7	4	1400-0050
A-PAN DMW-BLC12	Panasonic DMW-BLC-12	1000	7.4	4	1400-0056
A-Pan DMW-BLG 10	Panasonic DMW-BLG 10	730	7.4	4	1400-0063

Pentax



Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A-Pen D-Li 109	Pentax D-Li 109	1100	7.4	4	1400-0020

Sony








Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A-Son NP BN 1	Sony NP-BN 1	600	3.7	4	1400-0009
A-Son NP BX1	Sony NP BX1	1000	3.7	4	1400-0041
A-Son NP FH 50	Sony NP-FH 50	750	7.4	4	5044623
A-Son NP FM 500 H	Sony NP-FM 500 H	1500	7.4	4	5044503
A-Son NP FW 50	Sony NP-FW 50	900	7.4	4	1400-0008
A-Son NP-F970	Sony NP-F970	6600	7.4	4	1400-0078
A-Son NP FZ-100	Sony NP-FZ-100	2000	7.4	4	1400-0079
A-Son NP BG 1	Sony NP-BG 1	900	3.7	4	5044293

BATTERIES







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Redline

					
Product	Micro AAA	Mignon AA	Baby C	Mono D	9 V E-Block
Electro-chemical system	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline
Alternative designation	LR03	LR6	LR14	LR20	6LR61
Voltage (V)	1.5	1.5	1.5	1.5	9
Packaging type	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister
Batteries included	4	4	2	2	1
PU	10	20	10	10	10
Part number	5015553	5015563	1513-0000	1514-0000	1515-0000
Packaging type	Box	Box	Box	Box	Box
Batteries included	8	8	4	4	2
PU	10	10	5	5	10
Part number	5015360	5015280	5015571	5015581	5015591
Packaging type	Box	Box			
Batteries included	20	20			
PU	10	10			
Part number	5015538	5015548			




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X-Power

						
Product	Mini AAAA	Micro AAA	Mignon AA	Baby C	Mono D	9 V E-Block
Electro-chemical system	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline
Alternative designation	LR08	LR03	LR6	LR14	LR20	6LR61
Voltage (V)	1.5	1.5	1.5	1.5	1.5	9
Packaging type	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister	Paper blister
Batteries included	2	2 4	2 4	2	2	1
PU	10	10	20	10	10	10
Part number	1510-0005	5015603 5015653	5015613 5015663	5015623	5015633	5015643
Packaging type		Shrink	Shrink	Bulk	Bulk	Bulk
Batteries included		2 3 4	2 4	1	1	10
PU		10	10	20	20	10
Part number		5015671 5015721 1521-0007	5015731 5015681	5015691	5015701	5015711






Details: Page 32

Extreme

			
Product	Micro AAA	Mignon AA	9 V E-Block
Electro-chemical system	Lithium	Lithium	Lithium
Alternative designation	FR03	FR6	6FR61
Voltage (V)	1.5	1.5	9
Packaging type	Paper blister	Paper blister	Paper blister
Batteries included	4	2 4 8	1
PU	10	10 10 8	10
Part number	5021013	5021003 1512-0002 1512-0012	5021023
Packaging type		Bulk	
Batteries included		50	
PU		50	
Part number		1502-0001	






Details: Page 34

Thionyl chloride




					
Product	1/2AA	AA	A	C	D
Electro-chemical system	Lithium Thionyl chloride	Lithium Thionyl chloride	Lithium Thionyl chloride	Lithium Thionyl chloride	Lithium Thionyl chloride
Alternative designation	ER14250	ER14505	ER17500	ER26500	ER34615
Voltage (V)	3.6	3.6	3.6	3.6	3.6
Packaging type	Bulk	Bulk	Box	Box	Box
Batteries included	1	1	1	1	1
PU	20	20	10	10	10
Part number	1522-0037-1	1522-0036-1	1522-0038	1523-0005	1524-0005

BATTERIES



Industrial

					
Product	Micro AAA	Mignon AA	Baby C	Mono D	9 V E-Block
Electro-chemical system	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline
Alternative designation	LR03	LR6	LR14	LR20	4LR61
Voltage [V]	1.5	1.5	1.5	1.5	9
Packaging type	Bulk	Bulk	Bulk	Bulk	Bulk
Batteries included	10	10	10	10	10
PU	10	10	10	10	10
Part number	1501-0009	1502-0006	1503-0000	1504-0000	1505-0001





Industrial

			
Product	Micro AAA	Mignon AA	9 V E-Block
Electro-chemical system	Lithium	Lithium	Lithium
Alternative designation	FR03	FR6	4FR61
Voltage [V]	1.5	1.5	9
Packaging type	Bulk	Bulk	Bulk
Batteries included	10	10	5
PU	10	16	10
Part number	1501-0010	1502-0005	1505-0002

Smoke detector






		
	9 V E-Block	9 V E-Block
	Lithium	Alkaline
	6FR61	6LR61
	9	9
	Paper blister	Paper blister
	1	2
	16	10
	5021023-01	1515-0006

Special cells





				
Product	Heavy Duty	Heavy Duty	Alkaline	Air-Alkaline
Electro-chemical system	Zinc-carbon	Zinc-carbon	Alkaline	Zinc-air alkaline
Alternative designation	4R25	3R12	3LR12	4R25
Voltage [V]	6	4.5	4.5	6.0
Packaging type	Bulk	Blister	Paper blister	Bulk
Batteries included	1	1	1	1
PU	15	10	10	12
Part number	1500-0003	5013091	1500-0053	1500-0047

ACCESSORIES

Tester

					
Product	Energy check LCD	Battery Tester	Power Check	Energy Check	Coin Cell Tester
Testable cells	Alkaline & Lithium Batteries & button cells, NiMH/NiCd & Li-Ion rechargeable batteries, lithium photo batteries, zinc-air button batteries	Alkaline, NiMH round cells & 9 V E-Block	12 V car batteries	Vehicle battery voltage	Alkaline & Lithium button cells
Display	Energy content in 10% increments and voltage in volts	Digital voltage display	State of charge, ready to start, load test, defect detection	Output voltage accurate to 0.1 V via LED display	Voltage via 5 LEDs
Dimensions [mm]	195 x 100 x 32	61 x 62 x 29	120 x 46 x 25	70 x 32 x 32	55 x 45 x 13.5
Weight [g]	273	36	92	19	17
PU	18	24	16	10	10
Details	Page 41	Page 42	Page 42	Page 43	Page 43
Part number	1900-0100	4000001	4000002	1900-0019	1900-0035

Battery boxes

				
Product	Battery Box 4	Battery Box 8 Plus	Battery Box 48	Battery Box 56 with battery tester
Compatible with	AAA AA	AAA AA CR 123A CR 2	AAA AA E	AAA AA E
Quantity	4	8	48	56
Dimensions [mm]	55 x 22 x 67	160 x 22 x 55	173 x 63 x 138	173 x 63 x 138
PU	20	15	24	24
Accessories included			Screws & wall plugs for wall mounting	Screws & wall plugs for wall mounting, tester
Details	Page 45	Page 45	Page 45	Page 45
Part number	4000740	4000033	1900-0041	1900-0041-1

Button cells



Details: Page 36

Product	LR41	LR43	LR44	LR54	LR1	4LR44
Electro-chemical system	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline
Alternative designation	LR736 AG3	LR1142 AG12	LR1154 AG13	LR1130 AG10	AM5 MN9100 E90	A544 L1325
Voltage (V)	1.5	1.5	1.5	1.5	1.5	6
PU	10	10	10	10	10	10
Part number	5015332	5015293	5015303	5015313	5015453	1510-0009

Product	A10	A11	A23	A27	A29	CR1025
Electro-chemical system	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline	Lithium
Alternative designation	LR10 MN10 L1022	LR11 MN11 L1016	LR23 MN21 L1028	LR27 MN27 L828	LR29 MN29 L822	
Voltage (V)	9	6	12	12	9	3
PU	10	10	10	10	10	10
Part number	1510-0006	1510-0007	5015182 (1x) 1510-0024 (2x)	1516-0001	1510-0008	1516-0005

Product	CR1216	CR1220	CR1225	CR1616	CR1620	CR1632
Electro-chemical system	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Alternative designation						
Voltage (V)	3	3	3	3	3	3
PU	10	10	10	10	10	10
Part number	1516-0007	5020062	1516-0008	5020132	5020072	1516-0004

Product	CR2016	CR2025	CR2032	CR2330	CR2354	CR2430
Electro-chemical system	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Alternative designation						
Voltage (V)	3	3	3	3	3	3
PU	10	10	10	10	10	10
Part number	5020082	5020142	5020122	1516-0009	1516-0012	5020092

Product	CR2450	CR2477	CR3032	CR123A	CR2	2CR5
Electro-chemical system	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Alternative designation				CR17335	CR17355	
Voltage (V)	3	3	3	3	3	6
PU	10	10	10	50 12 12	50 12	12
Part number	5020112	1516-0010	1516-0013	5020011 (Bulk) 5020012 (1x) 1510-0023 (2x)	5020021 (Bulk) 5020022 (1x)	5020032

Product	CR1/3N	SR44	SR66
Electro-chemical system	Lithium	Silver oxide	Silver oxide
Alternative designation	CR11108 2L76	SR1154 357	SR626 377
Voltage (V)	3	1.55	1.55
PU	10	10	10
Part number	1516-0097	1516-0011	1516-0019

Details: Page 38

Hearing aid batteries



Product	10	312	13	675
Electro-chemical system	Zinc-air	Zinc-air	Zinc-air	Zinc-air
Alternative designation	PR70 AZA10	PR41 AZA312	PR48 AZA13	PR44 AZA675
Voltage (V)	1.5	1.45	1.45	1.45
Packaging type	Blister	Blister	Blister	Blister
PU	10	10	10	10
Part number	5013223	5013233	5013243	5013253

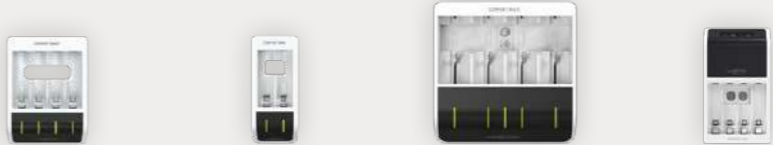
CHARGERS

Professional



Product	Powerline 4.2 Pro	Powerline 5 Pro	Powerline 8	Powerline Vario X	Powerline 2	Energy 16 Plus
Battery types	NiMH	NiMH	NiMH	NiMH Li-Ion LiPo	NiMH	NiMH
Input voltage	100-240 V AC	100-240 V AC 12 V DC	100-240 V AC	5 V DC (USB)	100-240 V AC	100-240 V AC
Charge current in mA (quantity)						
Micro AAA	400, 600, 800 (1-4)	400, 600, 800 (1-4)	500 (1-8)	1000 (2)		400 (1-12)
Mignon AA	400, 600, 800 (1-4) 1500, 1800 (1-2)	400, 600, 800 (1-4)	500 (1-8)	1000 (2)		1000 (1-12)
Baby C		1500, 1800 (1-2)				1000 (1-6)
Mono D						60 (1-2)
9 V E-Block		15			70 (1-2)	
Lithium						
USB				500 (2), 600 (1)		1000 (1-2)
Charge time for Mignon AA 1000 mAh (h)	0.6 - 3	0.6 - 3	2.4	1.2 2.5 Rechargeable battery packs	1.7 (9 V 100 mAh)	1.2
-ΔU	•	•	•	•	•	•
Temperature monitoring	•	•				
Safety timer	•	•	•	•	•	•
CCCV (constant current constant voltage)				•		
LCD display	•	•		•		
Single slot monitoring	•	•	•		•	•
Overcharging protection	•	•	•	•	•	•
Discharge function	•	• For round cells	•			
Refresh function	•	• For round cells				- (automatic)
Battery defect detection	•	•	•	•		•
Quick capacity test				•		•
Dimensions (mm)	130 x 80 x 31	170 x 142 x 49	120 x 139 x 31	111.5 x 55 x 22	124 x 70 x 90	244 x 262 x 60
Weight (g)	260	650	360	89	134	1264
PU	4	4	4	4	10	4
Accessories included	AC mains adapter	AC mains adapter, Car adapter	AC mains adapter	Micro USB cable		
Details	Page 50	Page 53	Page 53	Page 54	Page 55	Page 55
Part number	1001-0079	1001-0018	1001-0006	1001-0085	5107043	1001-0004

Best Comfort



Product	Comfort Smart	Comfort Mini	Comfort Multi	Comfort Plus
Battery types	NiMH	NiMH	NiMH	NiMH
Input voltage	5 V DC (USB)	5 V DC (USB)	5 V DC (USB)	100-240 V AC
Charge current in mA (quantity)				
Micro AAA	400 (1-4)	400 (1-2)	400 (1-4)	350 (1-4)
Mignon AA	800 (1-4)	800 (1-2)	800 (1-4)	650 (1-4)
Baby C			800 (1-4)	
Mono D			800 (1-4)	
9 V E-Block			15 (1)	15 (1)
Lithium				
Charge time for Mignon AA 1000 mAh (h)	1.5	1.5	1.5	2.2
-ΔU	•	•	• (for round cells)	•
Perfect 7 Charging Technology	•	•	• (for round cells)	•
Safety timer	•	•	•	•
CCCV (constant current constant voltage)				
LCD display				•
Single slot monitoring	•	•	•	•
Overcharging protection	•	•	•	•
Discharge function				•
Battery defect detection	•	•	•	•
Quick capacity test	•	•	•	•
Dimensions (mm)	72 x 97 x 29	42 x 97 x 29	152 x 149.5 x 47	72.3 x 124.6 x 67.5
Weight (g)	110	75	330	200
PU	60	60	20	30
Accessories included	USB to micro-USB charging cable 100 cm	USB to micro-USB charging cable 100 cm	USB to micro-USB charging cable 100 cm	
Details	Page 58	Page 60	Page 61	Page 61
Part number	1001-0092 1001-0092-01	1001-0091 1001-0091-01	1001-0093	1001-0094 1001-0094-01

* Either round cell charging or charging via USB

CHARGERS

Basic



Product	Basic II	Basic IV
Rechargeable battery types	NiMH	NiMH
Input voltage	5 V DC (USB)	5 V DC (USB)
Charge current in mA (quantity)		
Micro AAA	100 (1-2)	100 (1-4)
Mignon AA	200 (1-2)	200 (1-4)
Charge time for Mignon AA 1000 mAh (h)	6	6
-ΔU		
Temperature monitoring		
Safety timer	•	•
CCCV (constant current constant voltage)		
LCD display		
Single slot monitoring		
Overcharging protection	•	•
Discharge function		
Battery defect detection		
Dimensions (mm)	75 x 36.5 x 26	75 x 66 x 26
Weight (g)	88	150
PU	30	30
Accessories included	USB-C cable, 2x Mignon AA 1300 mAh rechargeable batteries	USB-C cable, 4x Mignon AA 1300 mAh rechargeable batteries
Details	Page 65	Page 65
Part number	1001-0119-01	1001-0120-01


Specialists



Product	NiZn Charger	Lithium 2	ACS48	ACS110
Rechargeable battery types	NiZn	NiMH Li-ion	NiMH	NiMH
Input voltage	100-240 V AC	5 V DC (USB)	100-240 V AC	100-240 V AC
Charge current in mA (quantity)			150 - 350 (4-8)	800 (1-10)
Micro AAA	500 (1-4) NiZn	500 (1-2)		
Mignon AA	500 (1-4) NiZn	500 (1-2)		
Lithium rechargeable batteries		1000 (1-2)		
Charge time for Mignon AA 1000 mAh (h)	3.5	2.4	3.5 - 8	1.5
-ΔU		•		•
Temperature monitoring	Voltage monitoring			
Safety timer		•		•
CCCV (constant current constant voltage)		•		
LCD display				
Single slot monitoring	•	•		
Overcharging protection	•	•		
Discharge function				•
Battery defect detection	NiMH detection			•
Dimensions (mm)	118 x 72 x 72	125 x 73 x 33	44 x 74 x 76	118 x 62 x 88
Weight (g)	110	105	141	276
PU	10	4	10	12
Accessories included		USB-C cable		
Details	Page 68	Page 68	Page 69	Page 69
Part number	1001-0013	1001-0050	1001-0024	1001-0023

CHARGERS

USB chargers

						
Product	Home Charger 365PD	Home Charger 265PD	Home Charger 245PD	Home Charger 430	Home Charger 218PD	Home Charger 118QC
Compatible with	devices that can be charged or operated via USB					
Output connections	1x USB 2x USB Type-C	1x USB 1x USB Type-C	1x USB 1x USB Type-C	4x USB	1x USB 1x USB Type-C	1x USB
Input voltage	100-240 V AC	110-240 V AC	110-240 V AC	110-240 V AC	100-240 V AC	100-240 V AC
Output voltage						
USB	5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 3.0 A 20.0 V DC 3.0 A Max. 60 W	5.0 V DC 2.4 A Max. 12 W	5.0 V DC 2.4 A Max. 12 W	USB 1+2: 5 V DC 3.0 A USB 3+4: 5 V DC 3.0 A Max. 30 W	5.0 V DC 3.0 A 9.0 V DC 2.0 A 12.0 V DC 1.5 A Max. 18 W	5.0 V DC 3.0 A 9.0 V DC 2.0 A 12.0 V DC 1.5 A Max. 18 W
	5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 3.0 A 15.0 V DC 3.0 A 20.0 V DC 3.3 A Max. 65 W PPS: 3.3-16.0 V 3.0 A 48 W	5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 3.0 A 15.0 V DC 3.0 A 20.0 V DC 3.25 A max. 65 W PPS: 5.9-11.0 V 4.0 A 44 W	5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 3.0 A 15.0 V DC 3.0 A 20.0 V DC 2.25 A max. 45 W PPS: 5.9-11.0 V 3.0 A 33 W		5.0 V DC 3.0 A 9.0 V DC 2.22 A 12.0 V DC 1.67 A Max. 20 W	
USB Type-C						
Multisafe Technology	•	•	•	•	•	•
Smart IC		•	•	•	•	
Quick Charge Compatible	•	•	•		•	•
Power Delivery	•	•	•		•	
GaN technology	•	•	•			
Dimensions (mm)	94 x 52 x 35	96 x 56 x 30	96 x 56 x 30	94 x 51 x 27	80 x 43 x 30	80 x 43 x 30
Weight (g)	135	104	104	81	50	56
PU	10	48	48	48	74	48
Details	Page 72	Page 74	Page 75	Page 76	Page 76	Page 77
Part number	1001-0150	1001-0096	1001-0095	1001-0107 (black) 1001-0113 (white)	1001-0109 (black) 1001-0111 (white)	1001-0099

							
Home Charger 212	Home Charger 105	Home Charger 130PD Mini	Home Charger 120PD Mini	Travel Charger 230PD	Travel Charger 315	Desktop Charger 5140PD	Desktop Charger 465PD
devices that can be charged or operated via USB							
2x USB	1x USB	1x USB Type-C	1x USB Type-C	1x USB 1x USB Type-C	3x USB	2x USB 3x USB Type-C	2x USB 2x USB Type-C
110-240 V AC	100-240 V AC	110-240 V AC	110-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	110-240 V AC
5.0 V DC 2.4 A Max. 12 W	5.0 V DC 1.0 A Max. 5 W			5.0 V DC 2.1 A Max. 10.5 W	5.0 V DC 3.0 A Max. 15 W	5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 3.0 A 20.0 V DC 3.0 A Max. 60 W	5.0 V DC 3.0 A 9.0 V DC 2.0 A 12.0 V DC 1.3 A Max. 18 W
		5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 2.5 A 15.0 V DC 2.0 A 20.0 V DC 1.5 A Max. 30 W	5.0 V DC 3.0 A 9.0 V DC 2.2 A 12.0 V DC 1.67 A Max. 20 W	5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 2.5 A 15.0 V DC 2.0 A 20.0 V DC 1.5 A Max. 30 W		5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 3.0 A 15.0 V DC 3.0 A 20.0 V DC 5.0 A Max. 140 W	5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 3.0 A 15.0 V DC 3.0 A 20.0 V DC 3.25 A Max. 65 W
•	•	•	•	•	•	•	•
				•	•	•	
						•	•
		•	•	•		•	•
		•	•			•	•
81 x 41 x 26	70 x 40 x 20	68 x 35 x 30	68 x 35 x 30	74 x 58 x 31	74 x 58 x 31	89 x 80 x 60	91 x 87 x 19.5
44	26	44	40	134	103	349	258
80	80	60	60	60	60	42	5
Page 77	Page 77	Page 78	Page 78	Page 79	Page 79	Page 80	Page 80
1001-0106 (black) 1001-0114 (white)	1001-0108 (black) 1001-0112 (white)	1001-0154	1001-0153	1001-0140	1001-0139	1001-0149	1001-0141

CHARGERS

Qi chargers



Product	Wiline 15R
Compatible with	Qi-enabled receivers, such as smartphones and more
Input connections	USB Type-C
Input voltage	5 V DC 2 A 9 V DC 2.0 A 12 V DC 2.0 A
Output voltage	5 V DC 1.0 A 9 V DC 1.12 A 9 V DC 1.67 A Max. 15 W
Multisafe Technology	•
Charge efficiency	> 75%
Dimensions (mm)	ø 100 x 8
Weight (g)	77
PU	60
Accessories included	USB to USB-C cable
Details	Page 81
Part number	1001-0126

CHARGERS

In-Car USB chargers



Product	In-Car Charger 230PD	In-Car Charger 212	In-Car Charger 105
Compatible with	devices that can be charged or operated via USB		
Output connections	1x USB 1x USB Type-C	2x USB	1x USB
Input voltage	12-24 V DC	12-24 V DC	12-24 V DC
Output voltage			
USB	5 V DC 3.0 A 9 V DC 3.0 A 12 V DC 2.5 A 20 V DC 1.5 A	1: 5 V DC 2.4 A 2: 5 V DC 2.4 A Max. 12 W	5 V DC 1.0 A Max. 5 W
USB Type-C	5 V DC 3.0 A 9 V DC 3.0 A 12 V DC 2.5 A 15 V DC 2.0 A 20 V DC 1.5 A Max. 30 W		
Multisafe Technology	•	•	•
Smart IC	•	•	•
Qualcomm Quick Charge 3.0	•		
Power Delivery	•		
Dimensions (mm)	43.5 x 24 x 24	43.5 x 24 x 24	43.5 x 24 x 24
Weight (g)	14	13	13
PU	80	80	80
Details	Page 84	Page 85	Page 85
Part number	1000-0029	1000-0030	1000-0031

CHARGERS

Car chargers







Product	BC 6-12 V / 10 A	BC 6-12 V / 6 A	BC 6-12 V / 4 A	BC 6-12 V / 2 A	BC 6-12 V / 1 A
Input voltage	220-240 V AC	220-240 V AC	220-240 V AC	220-240 V AC	220-240 V AC
Battery voltage	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12
Charge current (mA)	10 A	6 A	4 A	2 A	1 A
Charging characteristic					
For batteries from (Ah)	7 - 200	4 - 150	4 - 120	4 - 60	4 - 30
Suitable battery types	Lead-acid / lead-gel / lead-mat & lithium iron phosphate batteries				Lead-acid / lead-gel / lead-mat
Charging current controllers	•	•	•	•	•
Overcharging protection	•	•	•	•	•
Refresh mode	•	•	•		
Low temperature mode	•	•	•		
Power supply mode	•	•	•		
Dimensions (mm)	237 x 111 x 70	229 x 102 x 65	193 x 85 x 52	181 x 80 x 49	125 x 70 x 41
Weight (g)	959	736	529	439	322
PU	12	12	15	15	15
Details	Page 88	Page 90	Page 90	Page 93	Page 93
Part number	1001-0146	1001-0145	1001-0144	1001-0143	1001-0142



ALCT 6-24/10	ALCS 2-12/0.4	ALCS 2-24 A
230 V AC	100 - 240 V AC	230 V AC
Autom. 6 / 12 / 24	2 / 6 / 12	Autom. 2 / 6 / 12 / 24
1000 / 10000 / 5000 mA	400 mA	900 / 700 / 600 / 300 mA
4.5	1.2	1.3
Lead-acid / lead-gel / lead-mat	Lead-acid / lead-gel / lead-mat	Lead-acid / lead-gel / lead-mat
•	•	•
•	•	•
•		
•		
272 x 194 x 142	69 x 42 x 70	106 x 68 x 88
1420	135	230
4	4	10
Page 94	Page 95	Page 95
1001-0014	1001-0015	9164016






POWERSTATIONS







				
Product	Powerstation PS2200AC	Powerstation PS600AC	Powerstation Extension PSE2200	Powerstation Extension PSE600
Compatible with	Solar panels, Jump-start adapter, expansion battery PSE2200	Solar panels, Jump-start adapter, expansion battery PSE600	Powerstation PS2200AC	Powerstation PS600AC
Input connections	2x DC5521	1x DC5521	CP3500	CP3500
Output connections	4x USB 2x USB Type-C 3x DC 3x AC 1x Jump-start	3x USB 1x USB Type-C 3x DC 2x AC 1x Jump-start	CP3500	CP3500
Cell type	LiFePo4	LiFePo4	LiFePo4	LiFePo4
Capacity	55.000 mAh 1408 Wh	50.000 mAh 640 Wh	55.000 mAh 1408 Wh	50.000 mAh 640 Wh
Input voltage	12.0-30.0 V 9.5 A max. 200.0 W	12.0-30.0 V 8.3 A max. 100.0 W		
Output voltage	5.0 V DC 3.0 A 9.0 V DC 2.0 A 12.0 V DC 1.5 A Max. 18 W	5.0 V DC 3.0 A 9.0 V DC 2.0 A 12.0 V DC 1.5 A Max. 18 W		
USB				
USB Type-C	5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 3.0 A 15.0 V DC 3.0 A 20.0 V DC 5.0 A Max. 100 W	5.0 V DC 3.0 A 9.0 V DC 3.0 A 12.0 V DC 3.0 A 15.0 V DC 3.0 A 20.0 V DC 3.0 A Max. 60 W		
DC	12.0 V 10.0 A 120 W	12.0 V 10.0 A 120 W		
AC	230.0 V 2200 W	230.0 V 600 W		
Jump-start	12.0 V 500.0 A	12.0 V 500.0 A		
Multisafe Technology	•	•	•	•
Quick Charge Compatible	•	•		
Power Delivery	•	•		
Dimensions (mm)	360 x 270 x 280	263 x 221 x 216	360 x 270 x 280	263 x 221 x 216
Weight (kg)	17.5	9	15	8
PU	1	1	1	1
Details	Page 100	Page 101	Page 102	Page 102
Part number	1700-0168	1700-0167	1700-0170	1700-0169

Accessories

		
Product	Solar panel	Jump-start Adapter
Compatible with	Car batteries with 12.0 V Powerstation PS2200AC & PS600AC	
Output connections	2x USB 1x USB Type-C 1x DC 5521	
Output voltage	5.0 V DC 3.0 A 9.0 V DC 2.0 A 12.0 V DC 1.5 A Max. 18 W	Starting aid Output current
USB		500 A max.
USB Type-C	5.0 V DC 3.0 A 9.0 V DC 2.0 A 12.0 V DC 1.5 A Max. 18 W	Peak output current
		1000 A max.
DC	18.0 V 5.6 A 100 W	
Dimensions (mm)	590 x 520 x 30	271 x 45 x 35 Cable length: 50 cm
Weight (g)	3700	260
PU	3	10
Accessories included	DC5521 Connection cable (200 cm), adapter plug	
Details	Page 103	Page 103
Part number	1001-0152	1700-0174






POWERBANKS

    					
Product	Powerbank 40.0 LED	Powerbank 24.0 PRO	Powerbank 20.0 PRO	Powerbank 10.0 PRO	Powerbank 20.0 PRO
Input connections	USB Type-C	USB Type-C Micro-USB Lightning	USB Type-C Micro-USB	USB Type-C Micro-USB	USB Type-C
Output connections	2x USB 2x USB Type-C	2x USB 1x USB Type-C	2x USB 1x USB Type-C	2x USB 1x USB Type-C	1x USB 1x USB Type-C
Cell type	LiPo	LiPo	LiPo	LiPo	LiPo
Capacity	40.000 mAh 154 Wh	24.000 mAh 88.8 Wh	20.000 mAh 74 Wh	10.000 mAh 37 Wh	20.000 mAh 77 Wh
Input voltage	5-20 V DC 5.0 A	5.0 V 2.0 A	5.0 V 2.0 A	5.0 V 2.0 A	5.0 V 2.4 A 9.0 V 2.0 A 12.0 V 1.5 A
Micro-USB		9.0 V 2.0 A	9.0 V 2.0 A	9.0 V 2.0 A	
USB Type-C		5.0 V 2.4 A 9.0 V 2.0 A	5.0 V 3.0 A 9.0 V 2.0 A	5.0 V 3.0 A 9.0 V 2.0 A	
Lightning		5.0 V 1.5 A 9.0 V 2.0 A			
Solar					
Output voltage	5-12 V max. 3.0 A max. 15.0 W	5-12 V max. 4.5 A max. 22.5 W	5-12 V max. 3.0 A max. 18.0 W	5-12 V max. 3.0 A max. 18.0 W	4.5-12 V max. 5.0 A max. 22.5 W
USB					
USB Type-C	5-20 V DC max. 5.0 A max. 100 W	5-12 V max. 3.0 A max. 20.0 W	5-12 V max. 3.0 A max. 20.0 W	5-12 V max. 3.0 A max. 20.0 W	5-12 V max. 3.0 A max. 20.0 W
Wireless					
Charge time	30 W: 6 h 100 W: 3 h	8 h	7 h	5 h	10 h
Maximum smartphone charges	15x	11x	7x	4x	7x
Multisafe Technology	•	•	•	•	•
Quick Charge Compatible	•	•	•	•	•
Power Delivery	•	•	•	•	•
LED light	•				
Dimensions (mm)	128 x 73 x 63	159 x 74 x 33	148 x 70 x 18	146 x 69 x 15	88 x 63 x 30
Weight (g)	1050	501	417	233	320
PU	10	16	20	22	24
Accessories included	USB-C to USB-C cable	USB to micro-USB cable	USB to micro-USB cable	USB to micro-USB cable	USB to USB-C cable
Details	Page 108	Page 110	Page 111	Page 111	Page 112
Part number	1700-0178	1700-0153	1700-0147	1700-0148	1001-0155 (black) 1001-0157 (white)


     					
Powerbank 10.0 PRO	Powerbank 10.0 Wireless / Outdoor	Powerbank 10.8 Mini	Powerbank 30.0	Powerbank 20.0	Powerbank 10.0
USB Type-C	USB Type-C	Micro-USB	USB Type-C Micro-USB Lightning	USB Type-C Micro-USB	USB Type-C Micro-USB
1x USB 1x USB Type-C	2x USB	2x USB	2x USB	2x USB	2x USB 1x USB Type-C
LiPo	LiPo	LiPo	LiPo	LiPo	LiPo
10.000 38.5 Wh	10.000 37 Wh	10.000 37 Wh	30.000 111 Wh	20.000 74 Wh	10.000 37 Wh
		5.0 V 2.0 A	5.0 V 2.0 A	5.0 V 2.0 A	5.0 V 2.0 A
5.0 V 2.4 A 9.0 V 2.0 A 12.0 V 1.5 A	5.0 V 2.0 A		5.0 V 2.0 A	5.0 V 2.0 A	5.0 V 2.0 A
			5.0 V 2.0 A		
	5.0 V 0.25 A				
4.5-12 V max. 5.0 A max. 22.5 W	5.0 V 2.1 A 10.5 W	5.0 V 2.4 A 10 W	5.0 V 2.1 A 10.5 W	5.0 V 2.1 A 10.5 W	5.0 V 2.1 A 10.5 W
5-12 V max. 3.0 A max. 20.0 W					
	5.0 V 1.0 A 5.0 W				
5.5 h	5 h	6 h	15 h	11 h	5 h
4x	4x	3x	14x	7x	4x
•	•	•	•	•	•
•	•				
•	•	•			
	•	•			
97 x 64 x 17	160 x 79 x 13	93 x 64 x 24	164 x 85 x 32	148 x 70 x 28	146 x 70 x 16
182	393	208	625	409	232
40	6	4	15	20	40
USB to USB-C cable	USB to USB-C cable	USB to micro-USB cable	USB to micro-USB cable	USB to micro-USB cable	USB to micro-USB cable
Page 112	Page 113	Page 114	Page 116	Page 117	Page 117
1001-0154 (black) 1001-0156 (white)	1700-0164	1700-0091	1700-0134	1700-0133	1700-0132








SMARTPHONE ACCESSORIES

USB cable

					
Product	Micro USB cable	Lightning cable	Type-C cable	Type-C light cable	Micro USB cable
Cable length (cm)	100	100	100	100	120 200
Plug type	Micro-USB	Apple Lightning	USB Type-C	USB Type-C	Micro-USB
Material	Aluminium housing with strain relief			Aluminium housing	Aluminium housing with strain relief
Cable head					
Cable material	Highly flexible TPE plastic			Copper cables and glass fibre core	Highly flexible TPE plastic
Charging & synchronising	•	•	•	•	•
Fast-charging capability				•	•
Made for iPhone		•			
Weight (g)	26	24	27	29	23 39
PU	80	80	80	8	8
Details	Page 122	Page 122	Page 122	Page 122	Page 123
Part number	1700-0129	1700-0131	1700-0130	1700-0158	120 cm: 1700-0076 200 cm: 1700-0077

Adapter

	
Product	Type-C Laptop Adapter set
Adapter	USB Type-C
Plug type	B (5.5 x 1.7 mm), G (8.0 x 5.5 mm), H (7.4 x 5.0 mm), J (4.8 x 1.7 mm), L (5.5 x 2.5 mm), P (4.5 x 2.9 mm w/chip), E (4.5 x 2.9 mm), U (Square)
PU	81
Details	Page 127
Part number	1700-0137

						
Lightning cable	Type-C cable	3-in-1 USB cable	Type-C to Lightning	Type-C to Type-C	Type-C to Type-C	Type-C to Type-C Display
120 200	120 200	120	120 200	120 200	60	120 200
Apple Lightning	USB Type-C	Apple Lightning Micro-USB USB Type-C	Apple Lightning USB Type-C	USB Type-C USB Type-C	USB Type-C USB Type-C	USB Type-C USB Type-C
Aluminium housing with strain relief			Aluminium housing with strain relief		All-metal plugs made of zinc alloy	
Highly flexible TPE plastic		Highly flexible PP textile jacket	Highly flexible TPE plastic		High-quality textile sheathing	
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•			•			
23 39	34 56	41	36 57	34 54	23	40 76
8	8	8	8	8	8	8
Page 123	Page 123	Page 124	Page 125	Page 125	Page 126	Page 126
120 cm: 1700-0078 200 cm: 1700-0079	120 cm: 1700-0080 200 cm: 1700-0081	1700-0136	120 cm: 1700-0106 200 cm: 1700-0107	120 cm: 1700-0121 200 cm: 1700-0122	1700-0177	120 cm: 1700-0176 200 cm: 1700-0171

SMARTPHONE ACCESSORIES

Smartphone holder



Product	Magnetic holder for ventilation grille	Magnetic holder for windscreen
Dimensions (mm)	77 x 40 x 40	128 x 75 x 67
Weight (g)	59	82
PU	40	30
Accessories included	2 ultra-thin metal plates	2 ultra-thin metal plates
Details	Page 130	Page 131
Part number	1700-0159	1700-0160

UNIVERSAL POWER SUPPLIES



Product	APS 300	APS 600	APS 1000	APS 1500	APS 2250 L	APS 2250 H
Input voltage	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC
Secondary plug set	•	•	•	•	•	•
Max. Output current (mA)						
3.0 V DC	600	600	1000	1500		
4.5 V DC	600	600	1000	1500		
5.0 V DC	600	600	1000	1500	2250	
6.0 V DC	600	600	1000	1500	2250	
7.5 V DC	450	600	1000	1500	2250	
9.0 V DC	400	600	1000	1500	2250	
12.0 V DC	300	600	1000	1500	2250	2250
13.5 V DC					1800	
15.0 V DC					1800	1800
18.0 V DC						1500
19.0 V DC						1400
20.0 V DC						1350
22.0 V DC						1200
24.0 V DC						1000
Max. output power (W)	3.6	7.2	12	18	27	27
Stabilised	•	•	•	•	•	•
Pole reversal coupler	•	•	•	•	•	•
Dimensions (mm)	42 x 69 x 70	42 x 69 x 70	48 x 74 x 70	55 x 80 x 70	53 x 100 x 32	53 x 100 x 32
Weight (g)	102	125	144	161	291	291
PU	4	4	4	4	4	4
Accessories included	Additional plug set	Additional plug set	Additional plug set	Additional plug set	Additional plug set	Additional plug set
Details	Page 134	Page 134	Page 134	Page 134	Page 135	Page 135
Part number	1201-0021	1201-0022	1201-0023	1201-0024	1201-0025	1201-0026

TORCHES






Professional M-Series






					
Product	M100F	M200F	M250F	M350F	M900P
Batteries (incl.) or rechargeable battery cell type	1x Mignon AA Alkaline	2x Mignon AA Alkaline	3x Micro AAA Alkaline	4x Micro AAA Alkaline	4x Mignon AA Alkaline
Illuminant	3.0 W LED	5.0 W LED	5.0 W LED	5.0 W LED	10.0 W Cree LED
Lighting range (m) per ANSI FL1	70	120	150	140	240
Battery life (h)	5	22	10	12	20
Brightness (lumen)	115	240	260	320	930
Brightness (lux)	1250	3000	5700	4600	14000
Focusable	•	•	•	•	
Functions	100% 30% Strobe Dimming	100% 30% Strobe Dimming	100% 30% Morse Strobe Dimming	100% 30% Boost Morse Strobe Dimming	100% 30% Boost Strobe Dimming
Dust & water protection	IP54	IP54	IP54	IP54	IP67
Dimensions (mm)	104 x ø 25	164 x ø 29	123 x ø 34	143 x ø 39	174 x ø 40.5
Weight including disposable batteries / rechargeable battery (g)	92	174	157	241	187
PU	6	6	6	6	6
Accessories included	Hand strap, clip	Hand strap, clip	Hand strap, clip	Hand strap, clip	Wrist strap
Guarantee	3 years	3 years	3 years	3 years	3 years
Details	Page 144	Page 144	Page 144	Page 142	Page 145
Part number	1600-0170	1600-0173	1600-0171	1600-0172	1600-0162


Pro 3000R
26650 Li-Ion rechargeable battery 3.7 V 5000 mAh
3x 10.0 W Osram LEDs
213
76
3200
11310
High Medium Low Boost SOS Strobe
IP67
154 x ø 41
277
24
Hand strap, holster
5 years
Page 140
1600-0445

TORCHES


Outdoor T-Series

					
Product	T350FR	Multi 3-in-1	T50F	T120	T150
Batteries included		3x Micro AAA Alkaline	1x Mignon AA Alkaline	2x Micro AAA Alkaline	2x Mignon AA Alkaline
Rechargeable battery cell type	Li-Ion 3.7 V 700 mAh (integrated)				
Illuminant	5 W LED	10 W LED 3x white & red LEDs	3 W LED	3 W LED	3 W LED
Lighting range (m) per ANSI FL1	110	184	75	75	150
Battery life (h)	5.5	11	2.5	4	10
Brightness (lumen)	300	220	60	130	150
Brightness (lux)	3000	4550	1250	1350	5000
Focusable	•	•	•		
Lens technology	•	•	•	•	•
Dimmable	•				
Charging via USB	•				
Mounting magnet		•			
Light functions	100% 20% Dimming	torch Work light Signal light	100%	100%	100%
Storage temperature	-20 to 60 °C	-20 to 50 °C	-20 to 50 °C	-20 to 50 °C	-10 to 50 °C
Operating temperature	-20 to 25 °C	-20 to 25 °C	-20 to 25 °C	-20 to 25 °C	-10 to 25 °C
Dust & water protection	IP54	IP54	IP54	IP54	IP54
Dimensions (mm)	94 x ø 27	125.5 x ø 33	91.5 x ø 21	115 x ø 16	156 x ø 25
Weight including disposable batteries / rechargeable battery (g)	93	183	60	55	100
PU	6	6	6	6	6
Accessories included	Wrist strap	Clip	Wrist strap	Clip	Wrist strap
Details	Page 148	Page 150	Page 151	Page 151	Page 151
Part number	1600-0247	1600-0137	1600-0159	1600-0160	1600-0145







				
T200F	T300F	T400FR	T500F	T600FRB
3x Micro AAA Alkaline	2x Baby C Alkaline		3x Mono D Alkaline	3x Micro AAA Alkaline
		18650 Li-Ion Exchangeable (incl.)		18650 Li-Ion Exchangeable
3 W LED	5 W LED	5 W LED	10 W LED	10 W LED
174	110	175	170	165
13	7	9	43	27
200	320	400	970	620
7560	2500	7500	9471	6500
•	•	•	•	•
•	•	•	•	•
•		•		
		•		
100% 30%	100% 40%	100% 30% SOS Strobe	100% 40%	100% 25% 10% SOS Strobe
-10 to 50 °C	-10 to 50 °C	-20 to 50 °C	-10 to 50 °C	-10 to 50 °C
-10 to 25 °C	-10 to 25 °C	-20 to 25 °C	-10 to 25 °C	-10 to 25 °C
IP54	IP54	IPX4	IP54	IPX4
135 x ø 31	236 x ø 44	169 x ø 32	320 x ø 52	123 x ø 35
147	434	188	923	142
6	4	1	4	5
Wrist strap	Wrist strap	Wrist strap Micro-USB charging cable	Wrist strap	Clip
Page 152	Page 152	Page 153	Page 153	Page 153
1600-0138	1600-0202	1600-0150	1600-0203	1600-0268

TORCHES







Daily Use







					
Product	Daily Use 50B	Daily Use 70B	Daily Use 150B	Daily Use 270B	Daily Use 300B
Batteries included	1x Micro AAA Alkaline	1x Mignon AA Alkaline	2x Mignon AA Alkaline	3x Micro AAA Alkaline	2x Baby C Alkaline
Illuminant	3.0 W LED	3.0 W LED	3.0 W LED	5.0 W LED	5.0 W LED
Lighting range (m) per ANSI FL1	36	67	101	96	172
Battery life (h)	16.5	30	20	36	41
Brightness (lumen)	55	70	150	275	315
Brightness (lux)	330	1120	2576	2314	7431
Focusable	•	•	•	•	•
Light functions	High Low	High Low	High Low	High Low	High Low
Dust & water protection	IPX4	IPX4	IPX4	IPX4	IPX4
Dimensions (mm)	85 x ø 18	96 x ø 22	142.3 x ø 22	131.5 x ø 31	166.5 x ø 35
Weight including batteries (g)	30	42	107	142	280
PU	81	90	72	60	30
Accessories included	Wrist strap	Wrist strap	Wrist strap	Wrist strap	Wrist strap
Guarantee	3 years	3 years	3 years	3 years	3 years
Details	Page 156	Page 156	Page 157	Page 157	Page 154
Part number	1600-0426	1600-0427	1600-0428	1600-0429	1600-0430

HEAD LAMPS

						
Product	HD70B	HD120B	HD200B	HD230BS	HD250RS	HD450FRS
Batteries included	1x Mignon AA Alkaline	3x Micro AAA Alkaline	3x Micro AAA Alkaline	3x Micro AAA Alkaline	Li-Po rechargeable battery 3.7 V 1200 mAh	Li-Ion rechargeable battery 3.7 V 1400 mAh
Rechargeable battery cell type						
Illuminant	3 W LED Auxiliary LED	1 W Cree LED	3 W LED COB LED	5 W LED Red COB LED	5 W Cree LED 4 W COB LED	5 W LED
Lighting range (m) per ANSI FL1	80	14	50	74	51	92
Battery life (h)	36	15	17	25	9	12
Brightness (lumen)	65	125	185	230	250	450
Brightness (lux)	1600	52	1200	1382	2600	8500
Adjustable head	•		•	•	•	•
Charging via USB					•	•
Light functions	100 % 25% Close-range LEDs	100 % 30%	100% High Power 100% 3 W 100% COB 30% COB	30% 100% 5 W 100% red COB LED flashing light	100% High Power 100% 3 W 100% COB 30% COB Sensor mode	100% 50% 10% Continuously dimmable
Storage temperature	-10 to 50°C	-10 to 50 °C	-20 to 70°C	-10 to 50°C	-20 to 60°C	-10 to 55°C
Operating temperature	-10 to 25 °C	-10 to 25 °C	-10 to 25 °C	-10 to 25 °C	-20 to 25 °C	-5 to 30 °C
Dust & water protection	IP44	IPX2	IP44	IP54	IP54	IP65
Dimensions (mm)	64 x 28 x 35	74 x 42 x 21	68 x 47 x 34	60 x 41.7 x 36.3	58 x 36.5 x 43.5	87 x 64 x 41
Weight including disposable batteries / rechargeable battery (g)	66	86	102	99	80	125
PU	6	12	6	6	6	42
Accessories included	Head band	Head band	Head band	Head band	Head band Micro-USB charging cable	Head band USB type-C charging cable
Details	Page 162	Page 162	Page 162	Page 163	Page 163	Page 160
Part number	1600-0260	1600-0357	1600-0198	1600-0386	1600-0224	1600-0528

WORK LIGHTS

						
Product	HS20R Pro	HS5R	HS230B	PL130B	IL150B	WL230B
Batteries (incl. or rechargeable battery cell type)	Li-ion rechargeable battery 3.7 V 10.400 mAh	Li-ion rechargeable battery 3.7 V 2600 mAh	3x Mignon AA Alkaline	2x Micro AAA Alkaline	3x Micro AAA Alkaline	3x Micro AAA Alkaline
Illuminant	10 W Cree LED 2x 5 W Cree LED	5 W Cree LED	3 W LED 3 W COB LED	3 W SMD LED 1 W SMD LED	3 W COB LED 1 W LED	3 W COB LED 1 W LED
Lighting range (m) per ANSI FL1	470	500	213	16	16	30
Battery life (h)	10	9.5	8.5	7	20	7
Brightness (lumen)	1700	420	210	130	150	230
Brightness (lux)	55140	63150	11395	250	250	3111
Colour temperature (Kelvin)			3 W: 9000-13000 COB: 6000-7000			
Mounting magnet	•	•		•	•	•
Rotatable head / handle	•	•	•			•
Hook						•
Mains failure electronics	•	•				
Charging via USB	•	•				
Light functions	Dimming 8 - 100% Warning flashing mode, soft-start dimming	100 % 25% Warning flashing mode	100% main light 100% additional light	100% main light 100% Top LED	100 % 30% main light 100% Top LED	100% main light 100% Top LED
Operating temperature	-10 to 25 °C	-10 to 25 °C	5 to 25 °C	10 to 40 °C	-10 to 25 °C	-10 to 25 °C
Dust & water protection	IP20	IP20	IP20	IP20	IP54	IP20
Dimensions (mm)	215 x 81 x 105	215 x 81 x 105	157 x 124 x 75	160 x 18 x 15	185 x 35 x 20	222 x 46.3 x 35.3
Weight (g)	990	800	314	20	56	172
PU	6	6	4	16	8	9
Accessories included	Charging station Colour filter disc Micro-USB charging cable	Charging station Colour filter disc Micro-USB charging cable				
Details	Page 166	Page 168	Page 169	Page 172	Page 172	Page 173
Part number	1600-0223	1600-0222	1600-0441	1600-0385	1600-0211	1600-0355

					
IL300R	WL210B	WL250B	WL390R	WL450R	WL1500R Pocket Flex
Li-ion rechargeable battery 3.7 V 2500 mAh	3x Micro AAA Alkaline	4x Mignon AA Alkaline	Li-Po rechargeable battery 3.7 V 1200 mAh	Li-ion rechargeable battery 3.7 V 2000 mAh	Li-ion rechargeable battery 3.7 V 4400 mAh
6 W SMD LED 1 W LED	3 W COB LED 1 W SMD LED	3 W COB LED 1 W SMD LED	5 W SMD LED 3 W LED	6 W COB LED 3 W LED	15 W SMD LED 3 W Spot LED
55	45	19	36	30	100
10	12	7.5	5	30	16
600	210	215	385	450	1600
1120 3200	1650	360	1360	908	3000
6500-7000	3 W: 6500 1 W: 7000		5 W: 3000 6500 3 W: 7500		15 W: 6000 3 W: 7000
•	•	•	•	•	•
•	•				•
•	•	•			•
•					
•			•	•	•
100% main light 100% Top LED	100% main light 100% Top LED	100% main light 100% Top LED	100% main light 100% Top LED	100% main light 100% Top LED	25% 50% 100% main light 100% Spot LED
-20 to 25 °C	-10 to 25 °C	-20 to 25 °C	0 to 25 °C	-10 to 50 °C	-10 to 40 °C
IP20	IP20	IPX3	IP20	IPX3	IP65
274 x 64 x 40.3	175 x 31 x 21	290 × 38 × 23	240 × 37 × 16	306 x 40 x 25	171 x 76.5 x 40.7
312	88	190	112	175	388
4	16	16	33	32	20
USB type-C charging cable			USB type-C charging cable	Micro-USB charging cable	USB type-C charging cable
Page 173	Page 174	Page 174	Page 175	Page 175	Page 170
1600-0152	1600-0387	1600-0265	1600-0440	1600-0304	1600-0565

FLOODLIGHTS

Construction lights



Product	FL800R	FL1600R	FL2400R	FL4500R	FL800AC	FL1600AC	FL2400AC	FL4500AC	FL7200AC
Rechargeable battery cell type	Li-ion rechargeable battery 7.4 V 2200 mAh	Li-ion rechargeable battery 7.4 V 4400 mAh	Li-ion rechargeable battery 11.1 V 4400 mAh	Li-ion rechargeable battery 11.1 V 6600 mAh					
Illuminant	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED
Power in Watts	10	20	30	50	10	20	30	50	80
Input voltage	100 - 240 V AC (Mains adapter)	100 - 240 V AC (Mains adapter)	100 - 240 V AC (Mains adapter)	100 - 240 V AC (Mains adapter)	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC
Input current	500 mA	1000 mA	1000 mA	1.8 A					
Dust & water protection	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP65	IP65
Shock resistance	IK05	IK05	IK05	IK05	IK05	IK05	IK05	IK05	IK05
Protection class	3	3	3	3	1	1	1	1	1
Colour temperature (Kelvin)	5000	5000	5000	5000	5000	5000	5000	5000	5000
Colour rendering index (CRI)	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80
Brightness (lumen)	800	1600	2400	4500	800	1600	2400	4500	7200
Battery life (h)	12	10	10	12					
Charging time (h)	4	4.5	5.5	5					
Max. projection area	474 cm²	726 cm²	797 cm²	1053 cm²	446 cm²	694 cm²	825 cm²	1053 cm²	1211 cm²
Operating temperature	-20 to 50 °C	-20 to 50 °C	-20 to 50 °C	-20 to 35 °C	-20 to 50 °C	-20 to 50 °C	-20 to 50 °C	-20 to 60 °C	-20 to 60 °C
Energy label (See page 259)									
Dimensions (mm)	170 x 117 x 240	225 x 130 x 285	250 x 142 x 330	320 x 246 x 329	170 x 117 x 240	225 x 130 x 285	250 x 142 x 330	320 x 206 x 329	355 x 227 x 341
Weight (g)	914	1485	1856	2221	965	1403	1674	2569	3413
PU	6	6	6	4	6	6	6	4	4
Accessories included	Mains adapter	Mains adapter	Mains adapter	Mains adapter					
Guarantee*	10 years*	10 years*	10 years*	10 years*	10 years	10 years	10 years	10 years	10 years
Details	Page 178	Page 178	Page 178	Page 178	Page 179	Page 179	Page 179	Page 179	Page 179
Part number	1600-0274	1600-0275	1600-0276	1600-0402	1600-0277	1600-0278	1600-0279	1600-0403	1600-0404

* with the exception of the rechargeable battery pack

Wall spotlight



Product	WFL800	WFL1600	WFL2400	WFL800S	WFL1600S	WFL2400S
Illuminant	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED
Power in Watts	10	20	30	10	20	30
Supply voltage	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC
Water protection	IP54	IP54	IP54	IP54	IP54	IP54
Shock resistance	IK05	IK05	IK05	IK05	IK05	IK05
Protection class	1	1	1	1	1	1
Colour temperature	5000	5000	5000	5000	5000	5000
Colour rendering index (CRI)	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80
Brightness (lumen)	800	1600	2400	800	1600	2400
Installation height	max. 3 m	max. 3 m	max. 3 m	max. 3 m	max. 3 m	max. 3 m
Light duration sensor				40 sec - 5 min	40 sec - 5 min	40 sec - 5 min
Sensor range				max. 12 m	max. 12 m	max. 12 m
Sensor detection angle				Horizontal: 180° Vertical: +10° - 80°	Horizontal: 180° Vertical: +10° - 80°	Horizontal: 180° Vertical: +10° - 80°
Max. projection area	250 cm²	420 cm²	585 cm²	250 cm²	420 cm²	585 cm²
Operating temperature	-20 to 50 °C	-20 to 50 °C	-20 to 50 °C	-20 to 50 °C	-20 to 50 °C	-20 to 50 °C
Energy label (See page 259)						
Dimensions (mm)	150 x 50 x 170	200 x 75 x 225	231 x 41 x 202	145 x 50 x 170	200 x 75 x 225	235 x 35 x 200
Weight (g)	365	759	1150	422	819	1197
PU	6	6	6	6	6	6
Guarantee	10 years	10 years	10 years	10 years	10 years	10 years
Details	Page 186	Page 186	Page 186	Page 187	Page 187	Page 187
Part number	1600-0280	1600-0281	1600-0282	1600-0283	1600-0284	1600-0285

FLOODLIGHTS

NEW
Construction
lights



Product	FL20W-R	FL50W-R	FL20W-AC	FL50W-AC	FL100W-AC	FL150W-AC
Rechargeable battery cell type	Li-ion rechargeable battery 3.7 V 4400 mAh	Li-ion rechargeable battery 3.7 V 4400 mAh				
Illuminant	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED
Power in Watts	20	50	20	50	100	150
Input voltage	5 V DC	5 V DC	220 - 240 V AC	220 - 240 V AC	220 - 240 V AC	220 - 240 V AC
Input current	1 A	1 A				
Dust & water protection	IP54	IP54	IP65	IP65	IP65	IP65
Shock resistance	IK05	IK05	IK07	IK07	IK07	IK07
Protection class	3	3	1	1	1	1
Colour temperature (Kelvin)	6500	6500	5000	5000	5000	5000
Colour rendering index (CRI)	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80
Brightness (lumen)	2000	4500	2200	5400	12000	18000
Battery life (h)	5	5				
Charging time (h)	5	9				
Max. projection area	75 cm²	152 cm²	506 cm²	815 cm²	-	-
Operating temperature	-20 to 40 °C	-20 to 40 °C	-20 to 40 °C	-20 to 40 °C	-20 to 40 °C	-20 to 40 °C
Energy label (See page 259)						
Dimensions (mm)	270 x 280 x 70	305 x 270 x 70	222 x 146 x 228	291 x 174 x 280	343 x 241 x 341	423 x 297 x 387
Weight (g)	1180	1500	990	1405	2620	3950
PU	10	5	6	3	4	3
Accessories included	USB type-C charging cable	USB type-C charging cable				
Guarantee*	10 years*	10 years*	10 years	10 years	10 years	10 years
Details	Page 182	Page 182	Page 183	Page 183	Page 183	Page 183
Part number	1600-0616	1600-0630	1600-0632	1600-0627	1600-0628	1600-0629

* with the exception of the rechargeable battery pack

NEW

Wall spotlight




Product	WFL10W	WFL20W	WFL30W	WFL10W-S	WFL20W-S	WFL30W-S
Illuminant	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED
Power in Watts	10	20	30	10	20	30
Supply voltage	220 - 240 V AC	220 - 240 V AC	220 - 240 V AC	220 - 240 V AC	220 - 240 V AC	220 - 240 V AC
Water protection	IP65	IP65	IP65	IP65	IP65	IP65
Shock resistance	IK07	IK07	IK07	IK07	IK07	IK07
Protection class	1	1	1	1	1	1
Colour temperature	5000	5000	5000	5000	5000	5000
Colour rendering index (CRI)	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80
Brightness (lumen)	1050	2200	3300	1050	2200	3300
Installation height	max. 3 m	max. 3 m	max. 3 m	max. 3 m	max. 3 m	max. 3 m
Light duration sensor				10 sec - 5 min	10 sec - 5 min	10 sec - 5 min
Sensor range				max. 10 m	max. 10 m	max. 10 m
Sensor detection angle				180°	180°	180°
Max. projection area	151 cm²	225.8 cm²	348.3 cm²	204.6 cm²	300.5 cm²	439.8 cm²
Operating temperature	-20 to 40 °C	-20 to 40 °C	-20 to 40 °C	-20 to 40 °C	-20 to 40 °C	-20 to 40 °C
Energy label (See page 259)						
Dimensions (mm)	124 x 53.5 x 122	159 x 51.5 x 142	199 x 54.5 x 175	124 x 56 x 165	159 x 53.5 x 189	199 x 56.5 x 221
Weight (g)	230	360	570	310	440	660
PU	12	7	12	9	6	4
Guarantee	10 years	10 years	10 years	10 years	10 years	10 years
Details	Page 190	Page 190	Page 190	Page 191	Page 191	Page 191
Part number	1600-0624	1600-0625	1600-0626	1600-0621	1600-0622	1600-0623

CAMPING & DECO

			
Product	CL600B	CL200B	Mini camping lamp
Batteries included	2x Mono D Alkaline (not included)	4x Mignon AA Alkaline (not included)	3x Micro AAA Alkaline
Illuminant	15 W COB O-Ring LED	3 W COB O-Ring LED	3 W SMD LED
Battery life (h)	41	94	11.5
Brightness (lumen)	600	175	220
Brightness (lux)	500	135	70
Dimensions (mm)	119 x 119 x 221	64 x 64 x 144	63 x 63 x 115
Weight (g)	800	300	120
PU	4	12	80
Accessories included		Carabiner	"S" hook
Details	Page 194	Page 195	Page 195
Part number	1600-0287	1600-0286	1600-0388






ACCESSORIES


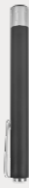



				
Product	Universal holster	Lamp holder	Carrying strap	Universal Tripod
Compatible with	Torches up to 150 x ø 34 mm	Torches up to ø 25 - 34 mm	HS1000FR, HS5R & HS20R	Floodlight series
Dimensions (mm)	51 x 34 x 154	86 x 38 x 96	940 x 38	109.5 x 96 x 875
Weight (g)	41	100	41	3188
PU	10	20	6	1
Details	Page 157	Page 157	Page 168	Page 179
Part number	1600-0017	1600-0080	1600-0022	1600-0315

HOME & OFFICE

				
Product	Twinflex	LED Book Light	RC2	Action COB
Batteries (incl.) or rechargeable battery cell type	3x Micro AAA Alkaline	Li-Po rechargeable battery 3.7 V 500 mAh	NiMH battery 160 mAh	3x Micro AAA Alkaline
Illuminant	2x SMD LED	9x LED	3x LED	1 W COB
Lighting range (m) per ANSI FL1	Close range	Close range	20	19
Battery life (h)	95	40	3	6
Brightness (lumen)	50	22	12	175
Brightness (lux)	80	35	200	92
Colour temperature (Kelvin)	6500 - 7500	6000 3000 1800		
Magnet	•	•		
Rotatable head / handle			•	
Light functions	100 % 50 %	High Medium Low	100 %	100 %
Dust & water protection		IP20		IPX3
Dimensions (mm)	255 x 40 x 45	300 x 34 x 43	149 x 44 x 33	95 x ø 29
Weight (g)	60	75	87	86
PU	4	140	4	96
Details	Page 198	Page 199	Page 199	Page 199
Part number	1600-0119	1600-0531	5101173	5016243

HOME & OFFICE

					
Product	Keychain Light	Keychain 2-in-1	Keychain KL80R	Mini Light ML400R	4-in-1 laser pointer
Batteries (incl. or rechargeable battery cell type)	4x LR41 button cells	3x LR41 button cells	Li-Po rechargeable battery 3.7 V 100 mAh	Li-Po rechargeable battery 3.7 V 300 mAh	3x LR41 button cells
Illuminant	1x LED	1x LED	1 W COB LED	5 W LED	1x LED
Lighting range (m) per ANSI FL1	5	50	10	55	500
Battery life (h)	4		2.5	8	
Brightness (lumen)			80	400	
Brightness (lux)			30	970	
Colour temperature (Kelvin)			5500-6500	6500-8000	
Magnet				•	
Rotatable head / handle					
Laser pointer		•			•
Touchscreen pen					•
Ballpoint pen					•
Light functions	100 %	100 %	Dimmable	High Medium Low Boost function	100 %
Dust & water protection			IPX3	IPX4	
Dimensions (mm)	50.5 x ø 10	60 x ø 10	55 x 22 x 12	60 x 27.5 x 15	153 x ø 10
Weight (g)	13	13	18	34	29
PU	12	12	10	10	10
Details	Page 200	Page 200	Page 201	Page 201	Page 202
Part number	1600-0272	1600-0270	1600-0505	1600-0597	1600-0269


				
Stylus Touch 4-in-1	PLC20B LED	PLC15B Bulb	X15	SF-1 Search & Find Stick
3x LR41 button cells	2x Micro AAA Alkaline	2x Micro AAA Alkaline	2x Micro AAA Alkaline	3x LR41 Batteries
1x LED	1x LED	1x E10 light bulb	1x LED	1x LED
100	15	6	20	
	42	3.5	45	
	13	3	15	
	230	35	45	
	8000-9000	2200		
				•
•				
•				
•				
100 %	100 %	100 %	100 %	100 %
	IP20	IP20	IPX4	
120 x ø 10	122.5 x 17 x 13	122.5 x 17 x 13	134 x ø 13	170 x ø 11
22	39	38	39	36
10	6	6	6	10
Page 202	Page 203	Page 203	Page 203	Page 203
1600-0271	1600-0457	1600-0458	1600-0169	5000023

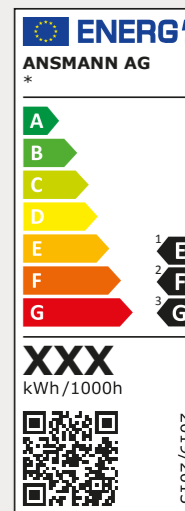
HOME & OFFICE



Product	NL25B	NL15AC + 2USB	NL10AC	LED strip with sensor
Batteries (incl. or rechargeable battery cell type)	3x Micro AAA Alkaline			4x Micro AAA Alkaline
Input voltage		220 V - 230 V AC	220 V - 230 V AC	
Illuminant	2 W COB LED	SMD LED	SMD LED	60x LED
Lighting range (m) per ANSI FL1				
Battery life (h)	200			60
Brightness (lumen)	25	15	5	350
Brightness (lux)				
Colour temperature (Kelvin)	3000	3000	3000	3000
Magnet	•			
Twilight sensor	•	•	•	•
Motion detector	•			•
Energy label				
Light functions	Orientation light: 100% / 50% Sleep light	100 %	100 %	100 %
Dust & water protection				IP20
Dimensions (mm)	50 x 90 x 34	72.5 x 59 x 59.5	60 x 60 x 54.5	147.5 x 28 x 18.5
Weight (g)	76	54	32	98
PU	8	30	54	36
Accessories included	Metal plate			Adhesive strips
Details	Page 204	Page 204	Page 205	Page 206
Part number	1600-0405	1600-0407	1600-0406	1600-0436



Cabinet light S	Cabinet light M	Cabinet light L	LED corner light	LED drawing board
Li-Po rechargeable battery 3.7 V 350 mAh	Li-Po rechargeable battery 3.7 V 600 mAh	Li-Po rechargeable battery 3.7 V 800 mAh		3x Micro AAA Alkaline
5 V DC	5 V DC	5 V DC	220 - 240 V AC	5 V DC
21x SMD LED	36x SMD LED	60x SMD LED	84x RGB SMD LED	10x RGB LEDs
8	9	11	Wide angle	
3.5	4.25	4.5		15
			300	
58	90	115		
6500 4000 3000 3400-3700	6500 4000 3000 3400-3700	6500 4000 3000 3400-3700	12 selectable colours	7 selectable colours
•	•	•		
•	•	•		
•	•	•		
				
Dimmable	Dimmable	Dimmable	366 light effects, 10 levels of speed adjustment, dimmable in 8 levels, 32 levels of brightness adjust- ment, colour change: Automatic Fast Step by step Manual	Colour change: Slow Fast Step by step Cycle
IP20	IP20	IP20	IP20	
151 x 35.5 x 18	252 x 35.5 x 18	351.4 x 35.5 x 18	1405 x 415 x 415	320 x 240 x 50
72	117	163	804	458
100	50	50	8	10
Adhesive tape, magnetic strips, Micro-USB charge cable	Adhesive tape, magnetic strips, Micro-USB charge cable	Adhesive tape, magnetic strips, Micro-USB charge cable	Remote control incl. CR2025 button cell, mains adapter, screws	20 drawing stencils, 1 cleaning cloth, 6 coloured pencils, Micro-USB charge cable
Page 207	Page 207	Page 207	Page 208	Page 209
1600-0437	1600-0438	1600-0439	1600-0606	1600-0605



The following articles are legally labelled with the energy label and energy efficiency class for LED lamps:

*1

1600-0632	-	FL20W-AC
1600-0627	-	FL50W-AC
1600-0628	-	FL100W-AC
1600-0629	-	FL150W-AC
1600-0624	-	WFL10W
1600-0625	-	WFL20W
1600-0626	-	WFL30W
1600-0621	-	WFL10W-S
1600-0622	-	WFL20W-S
1600-0623	-	WFL30W-S

*2

1600-0277 - FL800AC
1600-0278 - FL1600AC
1600-0279 - FL2400AC
1600-0277 - FL800AC
1600-0403 - FL4500AC
1600-0404 - FL7200AC
1600-0280 - WFL800
1600-0281 - WFL1600
1600-0282 - WFL2400
1600-0283 - WFL800S
1600-0284 - WFL1600S
1600-0285 - WFL2400S

*3
1600-0606 - LED corner light

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