

# ANSMANN

## PRODUCTS 2021



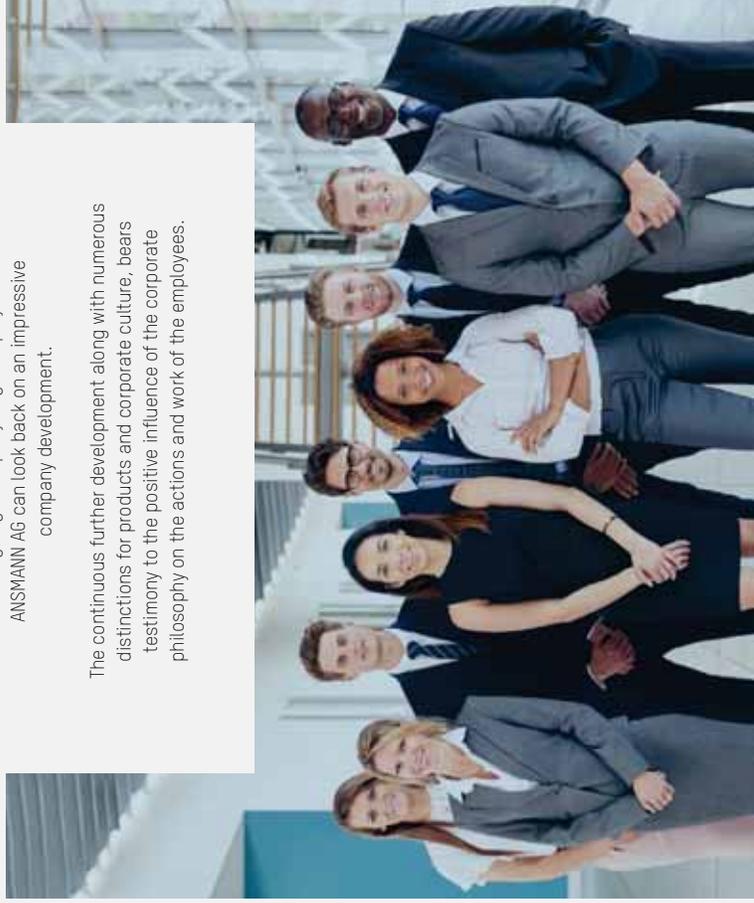
**ANSMANN**<sup>®</sup>

# ANSMANN

## IT ALL STARTED IN A GARAGE

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

The continuous further development 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.



 **30**  
YEARS

Experience in  
**RESEARCH &  
DEVELOPMENT**



Würth Future  
Champion Award,  
Test winner, prize  
Performance winner,  
Accessories of the  
month

**100**  
OVER  
DISTINCTIONS



**400**  
OVER  
EMPLOYEES

**6**

Offices

**WORLDWIDE**

China, Hong Kong,  
United Kingdom,  
Nordic, BeneLux,  
France



**PROCESSED**  
**CELLS**  
per minute

**133**

WE ARE THE

# MARKET LEADER

# WORLDWIDE

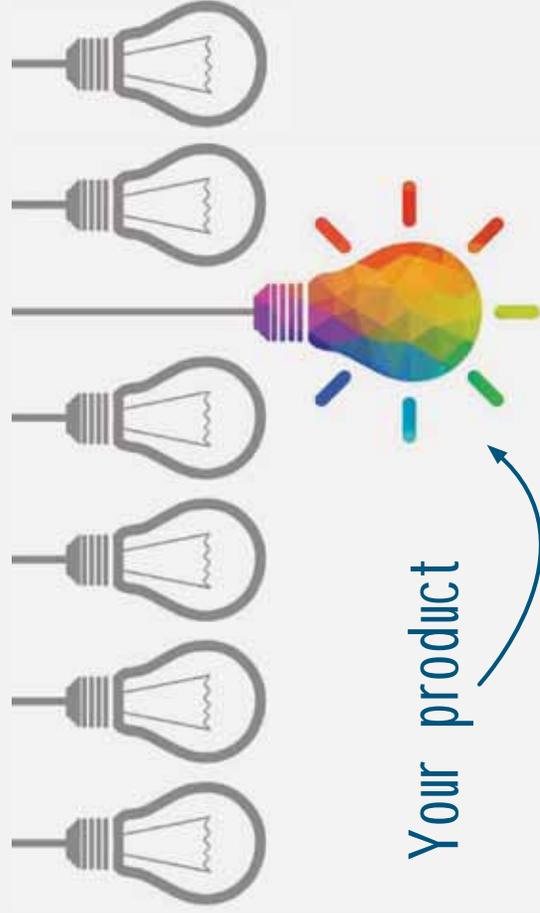
fast and flexible

*The best product is of little use,  
if it is not on time to the customer.*



# Our technology **YOUR BRAND**

*We analyse the market for you and provide you with recommendations on the potential as well as the needs of your target group. Based on this we develop a customer-oriented assortment proposal for expansion or construction of your own private labels. We are happy to support you with our experience in selection of suitable products, optimal units of volume and the design for your products and brands. Take advantage of our efficient processes and a short „time-to-market“.*



Your product



## Advice

**1** Our extensive product range offers many possibilities and opportunities. Together we will discuss which products can help you further and specify the first technical requirements.



## Offer

**2** We will provide you with an offer that includes all important data, minimum quantity, costs and delivery times. All facts at a glance.



## Technology

**3** We will tell you everything about your desired product. From technical data and dimensions to weight and accessories: Everything that is important for you.



## Individually

**4** With you we will receive your products not only with your own label, but with your own design - products with a clear recognition value of your brand. Incomparable, unique! That way you are the only one in the market.



## Packaging

**5** Don't leave the first impression to chance: We will support you with the packaging design - also based on your corporate design or on a meaningful template product.



## Guide

**6** We create your operating instructions according to your needs. Starting with the professionally translated texts and ending with the letter and layout according to your design specifications.



## Logistics

**7** We are happy to adapt to your processes and requirements. We implement your specifications or make program-based suggestions for optimal storage and palletizing.

IN 7 STEPS TO YOUR OWN

# PRIVATE LABEL

# Our solutions for YOUR MARKET

*A large part of purchasing decisions are still made directly at the Point of Sale. Second placements serve to guide the decision of customers at the POS and customers should make an unplanned purchase through a special offer. Therefore they are an effective, sales-promoting tool.*

## EXPERTISE ABOUT SECOND PLACEMENTS

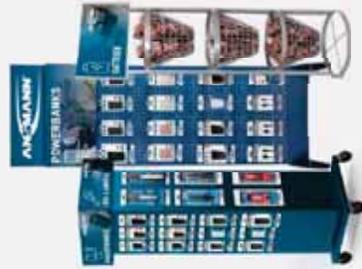
Through our individual display concept, increases in sales of up to 20 % can be achieved

The purchase of accessory products, such as batteries, rechargeable batteries & USB accessories are strongly impulse driven

Especially for batteries and rechargeable batteries, the majority of sales are generated by secondary placements

Displays are designed to encourage customers to buy. Therefore these are placed in highly frequented zones or in the checkout area

ANSMANN products also sell excellently as a cross-selling product in shelf with other related products



1

### Highly frequented areas

Floor displays, middle room presenter and basket chutes are suitable in main corridors, at the entrance and near cash desks. In these strong frequented zones, customers become impulse buyers.



2

### Checkout areas

In this area customers take articles spontaneously or everyday items. We offer a variety of different display solutions & product placements.



3

### Cross-Selling

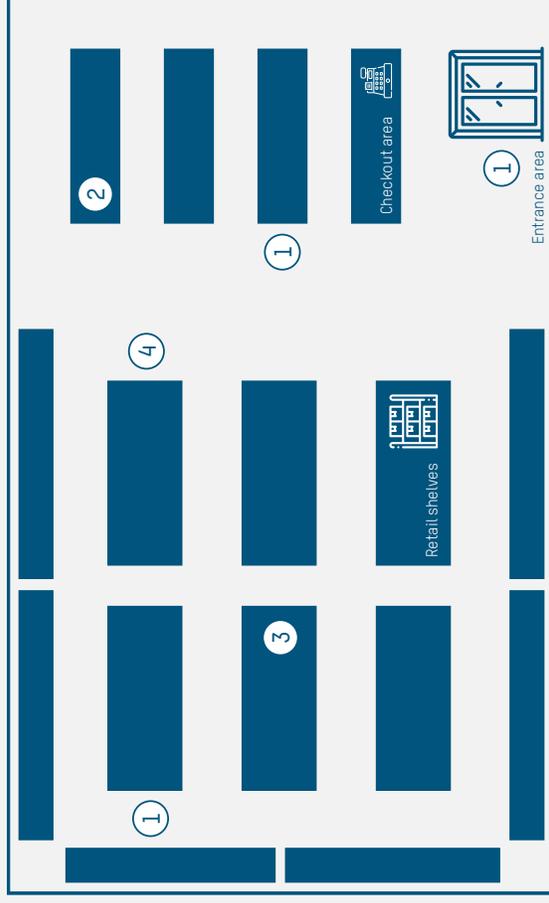
Cross-selling offers a great opportunity to make additional turnover. Our batteries and rechargeable batteries can be perfectly placed next to cameras, household appliances, etc.



4

### Shop-In-Shop

With our Shop-in-Shop solutions we offer our customers the full ANSMANN feeling from information to function testing. In addition the displays are pre-assembled on the delivered pallet.



THE RIGHT DISPLAY FOR

# EVERY SITUATION

# CONTENT



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## RECHARGEABLE & PRIMARY BATTERIES

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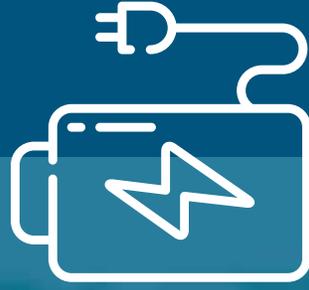
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## LED LIGHT

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# RECHARGEABLE BATTERIES



Little everyday heroes with  
**POWER**

*Our rechargeable batteries in the classic standard sizes are the optimal energy supply for a variety of applications. ANSMANN batteries are durable and robust. From entry level to the high performance range the suitable battery solution is offered to everyone by the ANSMANN assortment.*

# HIGHEST CAPACITY —

## PREMIUM & SPECIAL BATTERIES —

Professionals and frequent users like to use batteries with the highest capacity, with Mignon AA batteries up to 2850 mAh. The cells are developed so that they can release large amounts of energy in a short time. This is important, for example, in the camera flash or in measuring equipment. They are also the optimal choice for GPS devices and pocket devices for the longest possible runtimes. These cells also have the advantage of Low or Medium Self-Discharge that ensures they stay charged for longer when not used.



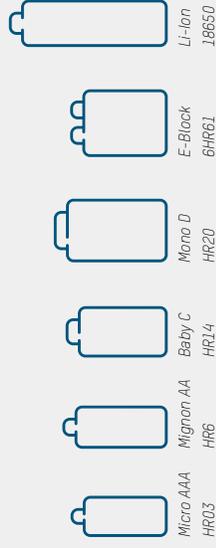
MOST FREQUENT

## FIELDS OF APPLICATION



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

## AVAILABLE CELL SIZES



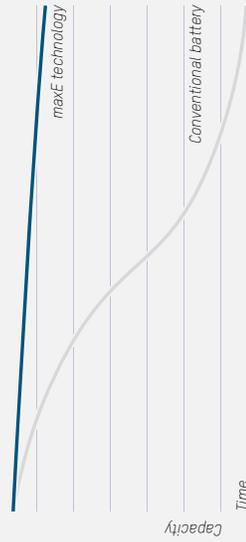
All technical data on page 158

# PREMIUM & SPECIAL BATTERIES

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



**SELF-DISCHARGE**  
1 YEAR



toys



dect phones



baby monitors



wireless mice



game controllers



remote controls

**MOST FREQUENT  
FIELDS OF  
APPLICATION**

**AVAILABLE  
CELL  
SIZES**



Micro AAA  
HR03



Mignon AA  
HR6



Baby C  
HR14



Mono D  
HR20



E-Block  
6HR61

All technical data on page 158

# CAMERA BATTERY

## PACKS

*The professional's choice for high quality lithium-ion battery packs are the perfect energy source for your camera. The high capacity and particularly long service life of ANSMANN rechargeable batteries provide more confidence in energy-intensive equipment.*



## NUMEROUS PROTECTION FEATURES



overload protection



overvoltage protection



short-circuit protection

*In addition to the excellent price/performance ratio, the batteries are particularly impressive due to their perfect fit and up to 5 years warranty.*

COMPATIBLE WITH THE MODELS OF THE FOLLOWING MANUFACTURERS

**Canon CASIO FUJIFILM Nikon**

**OLYMPUS Panasonic PENTAX SONY**

All technical data on page 160

# BATTERIES



## Versatile athletes

*There are many applications where a rechargeable battery does not offer the optimal solution. Whenever the application keeps the set of batteries in for longer than six weeks, disposable batteries might be the perfect choice. With ANSMANN batteries you can choose the best battery for longevity and endurance using the highest quality.*

# ORIGINAL

## ALKALINE

The ANSMANN ALKALINE is the ideal energy source for standard devices of daily use. It is ideal for the price-oriented consumer and is available in the usual Big 5 sizes.



### MOST FREQUENT FIELDS OF APPLICATION



radios



remote controls



wall clocks

We recommend these ALKALINE batteries especially for applications with long-term use, without frequent changing.

### AVAILABLE CELL SIZES



Micro AAA  
LR03



Mignon AA  
LR6



Baby C  
LR14



Mono D  
LR20



E-Block  
6LR61

All technical data on page 162

# X-POWER

## ALKALINE

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



MOST FREQUENT

## FIELDS OF APPLICATION



remote  
controlled toys



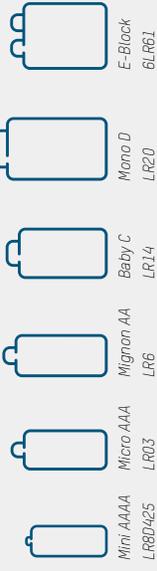
torches



motion  
detectors

We recommend the X-POWER premium batteries especially for applications with high performance and high demands.

## AVAILABLE CELL SIZES



All technical data on page 162

# EXTREME

## LITHIUM

The ANSMANN Extreme Lithium offers many times the performance of a standard battery. They can withstand extreme temperature fluctuations and have a very long shelf life. They also benefit from being around 35 % lighter than alkaline batteries of the same size.



### MOST FREQUENT FIELDS OF APPLICATION



flash lights



alarm systems



extremely  
temperature  
resistant

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

### AVAILABLE CELL SIZES



Micro AAA  
FR03



Mignon AA  
FR6

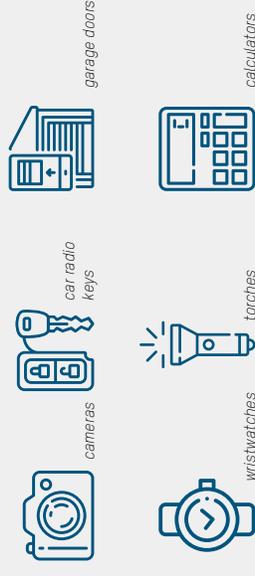


E-Block  
CR-V9

All technical data on page 163

# BUTTON CELLS

ANSMANN offers a wide range of button and coin cells and special 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 flashlights.



## MOST FREQUENT FIELDS OF APPLICATION

## AVAILABLE CELL SIZES



coin cells



round cells



2CR5

# HEARING AID

## CELLS

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



WORTH KNOWING

**LONGER SERVICE LIFE**

Only remove the protective film shortly before use and let it rest for one minute

Storage at room temperature

Open the battery doors 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



All technical data on page 165

# TESTERS

## RECHARGEABLE BATTERIES & BATTERIES

*Will the battery last or does it need to be replaced?  
Reliable information about the charge status of your  
rechargeable batteries and batteries are provided by  
ANSMANN test equipment. That helps you to sort out  
discharged or tired cells.*



## ENERGY CHECK LCD

Test station for rechargeable batteries, batteries and button cells

Display of the remaining voltage in Volts

Display of remaining capacity in 10 % steps

Part No. 4000392



## WHICH BATTERIES CAN BE TESTED?

	Lithium button cells	i.e. CR 1025 CR 1620		Lithium photo batteries	i.e. CR 2 CR 123 A		Alkaline button cells	i.e. LR 43 LR 54		Zinc-air button cells	i.e. 675 13		Alkaline batteries	i.e. AAA 9 V		NiCd-NiMH batteries	i.e. AA C
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All technical data on page 165

# BATTERY TESTER



alkaline round cells



alkaline coin cells



various NiMH batteries



Suitable for round cells and 9 V blocks

Analogue display of the remaining capacity

Display: good, low, replace

Part No. 4000001

# POWER CHECK

Car tester for testing 12 volt car batteries and alternators

Precise checking of the state of charge

Precise checking of the car battery's readiness to start

Detects defective car batteries

Performing a load test of the car battery

Part No. 4000002



All technical data on page 165

# POWER CHECK 12/24 V

Checks the battery voltage

Monitoring of 12 V or 24 V batteries and the alternator or charge regulator

Easy to use car adapter

Actual measured output voltage of the car battery accurate to 0.1 volt

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 the voltage (alkaline and lithium)

Capacity display via 5 LEDs

Includes CR-1620 button cell for operating the tester

Part No. 1900-0035



alkaline coin cells

## EMPTY BATTERIES WHERE TO PUT THEM?



≠



Batteries and Rechargeable cells should not be thrown in the household waste! Put the empty batteries next to your shopping bag, so you can take them with you on your next shopping trip.

In the checkout area of your supermarket there are usually battery recycling boxes. Further recycling points: supermarkets, department stores, electrical shops, petrol stations.

# BOXES

## RECHARGEABLE BATTERIES & BATTERIES

*With the practical storage boxes from ANSMANN you can keep your batteries tidy and protected at all times! So you always have the right battery at hand, at home and on the road.*



WHICH  
**CELLS**  
CAN BE  
STORED?



Alkaline  
Micro AAA



Alkaline  
Mignon AA



Alkaline  
E-Block



Recharge-  
able battery  
Micro AAA



Recharge-  
able battery  
Mignon AA



Recharge-  
able battery  
E-Block



# CHARGERS



## Gently & quickly charged

*Rechargeable batteries are only as good as they are cared for. This old principle applies in times of Li-Ion and NiMH batteries more than ever. The perfect charger is gentle on the battery, maintains and protects your battery, while it is reliable and fast charging. We are so convinced of the quality of our products that we offer an extended warranty of 3 years on our chargers.*



# COMFORT RANGE

## FEATURES

### PERFECT 7 Charging TECHNOLOGY

The fully automated 7-step charging maximizes service life and the performance of your batteries considerably. The innovative charging process is based on the latest findings from battery research and takes into account a multitude of parameters. You can find more information on page 44.



### Capacity QUICK TEST

Directly after insertion the quick capacity test determines the residual charge of your battery and shows this in the LED panel for 5 seconds. The automatic detection of low performance batteries avoids bad surprises.



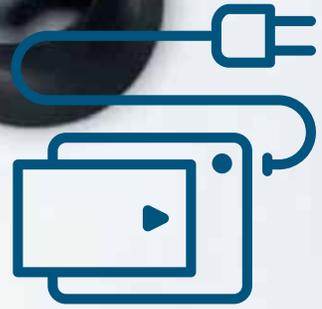
### Fast charge MODE

The new COMFORT series from ANSMANN charges your compatible NiMH batteries at up to 800 mA fast and controlled. This not only saves you wasted time, but also enables you to get by with less batteries.



### Protection FUNCTION

Several interconnected systems protect the inserted batteries from overheating and overcharging. This is why you can relax while your batteries are being charged.





# Perfect charging is that simple

Thanks to the intelligent „PERFECT 7“ charging technology, the Comfort Smart precisely charges your batteries fully. It is gentle and efficient ensuring your batteries have a long service life. The COMFORT range of chargers are amongst the most innovative and highly developed on the market.



Intelligent „PERFECT 7“ charging function

Quick capacity test of the inserted batteries

Display of the battery status by multicoloured LED per charging bay

Monitoring the charge status of each battery

Battery defect detection, reverse polarity protection, overcharge protection, pulse conservation 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 on page 170

# COMFORT MINI



Intelligent „PERFECT 7“ charging function

NIMH  
AAA, AA



1,5 h\*



5 V USB



Intelligent „PERFECT 7“ charging function

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



1,5 h\*



5 V USB

- Quick capacity test of the inserted battery
- Display of the battery status by multicoloured LED per charging slot
- Monitoring the charge status of each individual battery
- Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic switchover to pulse conservation charging

Part No. 1.001-0093

# COMFORT PLUS



NIMH  
AAA, AA,  
E (9 V)



2,2 h\*



100-240V AC



Intelligent „PERFECT 7“ charging function

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



1,5 h\*



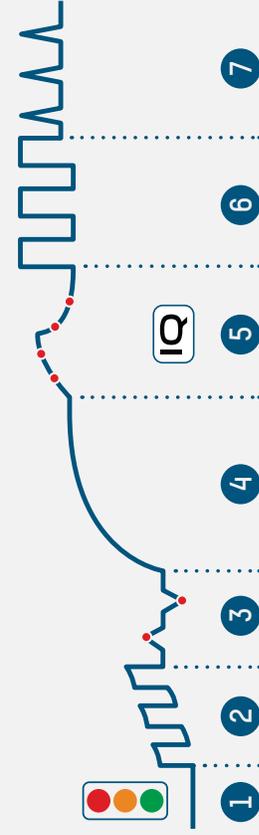
5 V USB

- Quick capacity test of the inserted battery
- Display of the battery status by multicoloured LED per charging slot
- Monitoring the charge status of each individual battery
- Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic switchover to pulse conservation charging

Part No. 1.001-0093

## PERFECT 7 CHARGING

THE NEXT LEVEL NIMH CHARGING TECHNOLOGY



- 1 Quick capacity test**  
The residual charge of the battery is determined before charging begins and is shown in a traffic light system for 5 seconds.
- 2 Gentle charging**  
A weak or deeply discharged battery is precharged with a lower electric current.
- 3 Battery analysis**  
The battery behaviour of the cell is analysed and evaluated to determine whether these are still reliably usable or defective.
- 4 Quick charge**  
The battery is charged with the maximum electric current.
- 5 IQ shutdown**  
The intelligent monitoring of the rechargeable batteries ensures a reliable charge and multiple protection against over-charging.
- 6 Top off load**  
At this stage, it is ensured that the battery is gently charged to 100 %.
- 7 Trickle charging**  
The battery is kept in a fully charged state by means of charging pulses.

All technical data on page 170



\* Charging time for Mignon AA 1000 mAh

# PROFES- SIONAL

## FEATURES



### Overload PROTECTION

Rechargeable batteries are sensitive energy storage devices. They want to be well looked after in order to be ready for use. This also includes that they are not overcharged. ANSMANN chargers analyse the charge level and stop the charge as soon as the battery is full.



### Trickle CHARGING

After the charging process is successfully completed, the ANSMANN chargers automatically change to the preservation mode. With short charging pulses the charger maintains the full charge of the battery.



### Discharge MODE

Batteries with NiMH technology have wiped out the „memory effect“ almost completely. However, to be completely safe, the Powerline 4,2 Pro, 5 Pro and 8 chargers can have their battery completely discharged once before recharging using the discharge mode.



### 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

The charging current for the Powerline 4,2 Pro and 5 Pro can be selected manually in advance using the function keys and the inserted round cells can thus be charged with up to 1800 mA in a rapid charging process.



### Various PROTECTIONS

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. Extensive and extremely useful functions meet the demands of professional users in both the commercial and private sectors at an unbeatable price-performance ratio.



NiMH  
AAA, AA



40 min\*



USB  
Output



100-240 V AC



Individually selectable charging programs: Charge, discharge, refresh, test

Adjustable charging currents per charging bay

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

Monitoring the charge status of each individual battery

Battery defect detection, reverse polarity protection, overcharge protection, pulse conservation charging

Part No. 1001-0079



# POWERLINE

# 4.2 PRO

\* Charging time for Mignon-AA 1000 mAh  
All technical data on page 168

# POWERLINE 4 LIGHT

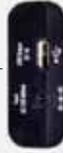


Display of battery voltage in volts and charging status in percent via LED

NiMH  
AAA, AA



USB  
Output



Monitoring the charge status of each individual battery

Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic switchover to pulse conservation charging

Part No. 1.001-0011



2,6 h\*



100-240 VAC

# POWERLINE 5 PRO

Individually selectable charging programs: Charge, discharge, refresh, test

Adjustable charging currents per charging bay

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

Monitoring the charge status of each individual battery

Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic switchover to pulse conservation charging

Part No. 1.001-0018



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



0,6 h\*



100-240 VAC,  
12 V car



USB Output

# POWERLINE 8

Selectable discharge function

Display of the battery status by multicoloured LED per charging slot

Monitoring the charge status of each individual battery

Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic switchover to pulse conservation charging

Part No. 1.001-0006



NiMH  
AAA, AA



2,3 h\*



100-240 VAC



## HOW ARE NiMH BATTERIES STORED CORRECTLY?



Always store the battery in a dry place



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



Never completely discharge the battery. Therefore, recharge every 2-3 months.

All technical data on page 188

\* Charging time for Mignon AA 1000 mAh

# POWERLINE VARIO X



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



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

Automatic voltage and polarity detection for lithium batteries

Sliding contacts for individual adaptation to the most Li-Ion/Li-Po battery packs

Battery defect detection

Ideal for travel, compact and lightweight



1,2 h\*



5 V USB

Part No. 1.001-0085

# POWERLINE 2

Charge status display via LED

Monitoring the charge status of each individual battery

Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic switchover to pulse conservation charging

Part No. 5107043



NiMH  
E (9 V)



1,7 h/  
100 mAh



100-240VAC



# ENERGY 8 PLUS

Auto diagnosis of the inserted batteries and, if required, automatic start of a precharge and/or refreshing process

Quick capacity test of the inserted battery

Display of the battery status by multicoloured LED per charging slot

Monitoring the charge status of each individual battery

Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic switchover to pulse conservation charging

Part No. 5207442



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



1,2 h\*



100-240VAC

# ENERGY 16 PLUS



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



Auto diagnosis of the inserted batteries and, if required, automatic start of a precharge and/or refreshing process

Quick capacity test of the inserted battery

Display of the battery status by multicoloured LED per charging slot

2 USB Outputs



1,2 h\*



100-240VAC

Monitoring the charge status of each individual battery

Battery defect detection, reverse polarity protection, multiple overcharge protection and automatic switchover to pulse conservation charging

Part No. 1001-0004



All technical data on page 188

\* Charging time for Mignon AA 1000 mAh

# SPECIALIST

## FEATURES



**Versatile  
CHARGING  
TECHNOLOGY**

Not every application uses the common NiMH technology, e.g. when other voltages or battery size is required. In order to guarantee the optimum charge for each battery technology, ANSMANN offer special chargers which are individually adapted to the characteristics of the different battery systems.



**Overload  
PROTECTION**

Rechargeable batteries are sensitive energy storage devices. They want to be well looked after in order to be ready for use. This also includes that they are not overcharged. ANSMANN chargers analyse the charge level and stop charging as soon as the battery is full.



**Various  
PROTECTION**

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



Suitable for 1.6 V nickel-zinc batteries  
Individual bay monitoring  
Microcontroller-monitored charge control  
Charge status display via LED  
Battery defect detection

Part No. 1.001-0013

100-240VAC

# LITHIUM 2

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

Automatic detection of Li-Ion and NiMH batteries

Display of the charging status via 3 LEDs per charging slot

Individual bay monitoring

Part No. 1.001-0050



Li-Ion, 18650, NiMH AAA, AA  
2,4 h\*



5 V USB



1-10 cell NiMH, NiCd



1,5 h



100-240VAC

# ACS48



4-8 zellige NiMH, NiCd



3,5-8 h



100-240VAC

Charger for 4-8 cell NiMH battery packs

Automatic recognition 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. 1.001-0024

# ACS110

Charger for 1-10 cell NiMH battery packs

Automatic recognition of the number of cells

Including 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-discharge of the battery pack possible, then automatic switchover to the charging process

Short circuit and reverse polarity protection

Part No. 1.001-0023

**LI-ION 18650**  
COMPATIBLE  
ANSMANN  
PRODUCTS



**LED TORCH T400FR**

Professional outdoor torch with 4 lighting functions

Further details on page 119

Part No. 1.600-0150



**LED TORCH T600FRB**

Professional outdoor torch with 5 lighting functions

Further details on page 119

Part No. 1.600-0268



**HEADLIGHT HD500R**

Professional outdoor headlamp with continuous focus

Further details on page 127

Part No. 1.600-0325



\* Charging time for Mignon AA 1000 mAh



All technical data on page 172

# 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 against overload, deep discharge, short circuit and overcharge of the battery.



### Wireless CHARGING

*I want to break free!* The dreams of cable-plagued smartphone users are finally coming true: Our modern Qi chargers enable wireless charging - just by resting them on. The worldwide common system standard „Qi“ is now supported by almost all smartphone manufacturers.



### USB Type C CONNECTOR



Fit for the future: With the new and flexible USB Type 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.

### Power DELIVERY

Power Delivery is a new fast-charging standard that can deliver up to 100 watts of power via the new USB Type C connector. Compatible notebooks can now also be charged without the need of a special power supply.



# The Power Delivery All-Charger

The USB-PD charger with 60 watts of power offers the ideal charging solution for your application. Thanks to the intelligent charging control and multisafe technology, your application is optimised and safely charged. The very low stand-by consumption makes this charger not only efficient but also economical to use.



60 W

Intelligent charge control ensures an optimised charge

Integrated power delivery (PD) protocol for fast charging of notebooks

Multisafe technology protects your terminal devices and the charger

Input:  
110 - 240 V AC | 50/60 Hz | max. 1.3 A

Output:  
5 - 20 V | max. 3 A

Part No. 1001-0096



# HOME CHARGER 254PD

All technical data on page 174

# HOME CHARGER 247PD



Intelligent charge control ensures an optimised charge

USB Type C PD

Integrated power delivery (PD) protocol for fast charging of notebooks

Multisafe technology protects your terminal devices 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

# USB CHARGER 112



Intelligent charge control ensures optimised charging

USB

Multisafe technology protects both your connected device and the charger

Suitable for devices that are charged or operated via USB

Input: 100-240 V AC | 50/60 Hz | 0,15 A

Output: 5 V DC | max. 1,2 A

Part No. 1001-0030-1

# USB CHARGER 224



Intelligent charge control ensures optimised charging

2x USB

Multisafe technology protects both your connected device and the charger

Suitable for devices that are charged or operated via USB

Input: 100-240 V AC | 50/60 Hz | 0,3 A

Output: 5 V DC | max. 2,4 A

Part No. 1001-0086

## POWER DELIVERY

### WHAT IS THAT?

Power Delivery is a new fast-charging standard that can deliver up to 100 watts of power via the new USB Type C connector. This means that not only small devices such as smartphones can be charged via USB Type C, but also compatible laptops such as the Apple MacBook Pro no longer require an extra power supply.



Power Delivery can output up to 100 watts. This puts it far ahead of its competitors. Among other things, this also enables the charging of notebooks via USB Type C.

Power Delivery charges compatible devices up to 20 times faster than the USB standard. Here the charging speed on an iPhone XS Max is compared.



All technical data on page 174

# HOME CHARGER HC218PD



3.0  
USB  
Type-C

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

Intelligent charge control ensures optimised charging

Multisafe technology protects your end device and the charger

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

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

Part No. black 1001-0109

Part No. white 1001-0111

18 W

# HOME CHARGER HC430



4x  
USB

30 W

Intelligent charge control ensures optimised charging

Automatic control of the output voltage and the output current

Multisafe technology protects 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

Part No. black 1001-0107

Part No. white 1001-0113

# HOME CHARGER 130Q



3.0

USB

18 W

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

Automatic control of the output voltage and the output current

Intelligent charge control ensures optimised charging

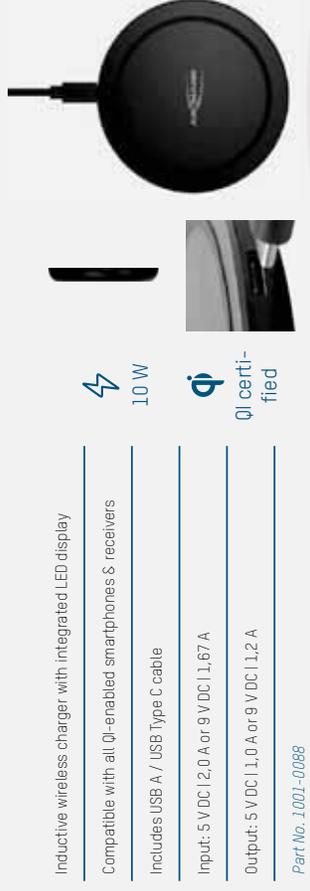
Input: 100 - 240 V AC | 50/60 Hz | max. 0.8 A

Output: 5 - 12 V | max. 3.0 A

Part No. 1001-0099

All technical data on page 174

# WILINE 10



Inductive wireless charger with integrated LED display

Compatible with all Qi-enabled smartphones & receivers

Includes USB A / USB Type C cable

Input: 5 V DC | 2.0 A or 9 V DC | 1.67 A

Output: 5 V DC | 1.0 A or 9 V DC | 1.2 A

Part No. 1001-0088

10 W

Qi certified

# WILINE CAR CHARGER



5 W

Qi ready

Inductive wireless charger with holder for windshield, dashboard or ventilation grill

Compatible with all Qi-enabled smartphones & receivers

Includes USB A / Micro USB cable

Input: 5 V | 2.0 A

Output: 5 V | 1.0 A

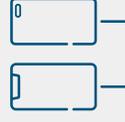
Part No. 1001-0043



All technical data on page 173

# IN-CAR USB CHARGER

## FEATURES



**UNIVERSALLY  
applicable**

With the ANSMANN USB car chargers you can charge any USB enabled device on the road. And this with up to four devices at the same time - no matter if smartphone, tablet or navigation system.



**USB Type C  
CONNECTOR**

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



**QUICK CHARGE  
3.0 compatible**

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



**3 years  
WARRANTY**

We are so convinced of the quality of our chargers that we offer an extended warranty, ensuring customers' peace of mind.



# IN-CAR CHARGER CC105



Intelligent charge control ensures optimised charging

Multisafe technology protects your connected devices and the charger

Suitable for devices that are charged or operated via USB

Input: 12 - 24 V DC | 1.0 A

Output: 5 V DC | 1.0 A

Part No. 1.000-0031



USB



5 W

# IN-CAR CHARGER CC230PD



Integrated power delivery (PD) protocol for fast charging of compatible devices e.g. smartphones and tablets

Intelligent charge control ensures optimised charging

Multisafe technology protects your connected devices and the charger

Input: 12 - 24 V DC | 3.0 A

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

Part No. 1.000-0029



USB  
Type-C



USB



30 W



3.0  
PD

# IN-CAR CHARGER CC212



Intelligent charge control ensures optimised charging

Multisafe technology protects your connected devices and the charger

Suitable for devices that are charged or operated via USB

Input: 12 - 24 V DC | 2.4 A

Output: 5 V DC | max. 2.4 A

Part No. 1.000-0030

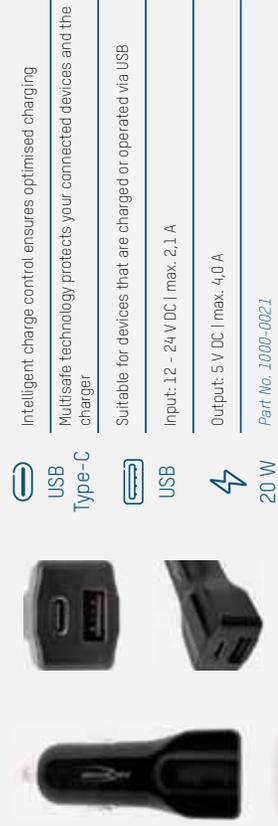


2x  
USB



12 W

# IN-CAR CHARGER 240C



USB  
Type-C



USB



20 W

Intelligent charge control ensures optimised charging

Multisafe technology protects your connected devices and the charger

Suitable for devices that are charged or operated via USB

Input: 12 - 24 V DC | max. 2.1 A

Output: 5 V DC | max. 4.0 A

Part No. 1.000-0021

# IN-CAR CHARGER 231+



Intelligent charge control ensures optimised charging

Multisafe technology protects your connected devices and the charger

2-in-1 USB cable from USB to Micro USB & Type C connector allows flexible and universal use

Input: 12 - 24 V DC | max. 2.1 A

Output: 5 V DC | max. 3.1 A

Part No. 1.000-0022



2x  
USB



15 W

# 2X2 USB CAR CHARGER



Intelligent charge control ensures optimised charging

Integrated, practical extension to the rear seats with two additional USB ports (2x front, 2x rear). Cable length: 1.8 m

Ideal for longer car journeys

Input: 12 - 24 V DC | max. 5.0 A

Output: 5 V DC | max. 9.6 A

Part No. 1.000-0017



4x  
USB



48 W

All technical data on page 176

# CAR CHARGER

## FEATURES



### Overcharge PROTECTION

Rechargeable batteries are sensitive energy storage devices. They need to be cared for and treated well in order to be ready for use for as long as possible. This also includes not charging them for too long. ANSMANN chargers analyse the charge level and stop charging as soon as the battery is full.



### 3 years WARRANTY

We are so convinced of the quality of our chargers that we offer an extended warranty, ensuring customers' peace of mind.



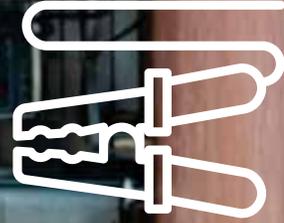
### COLD TEMP Mode

At low temperatures, the condition of your battery also changes. The ANSMANN Cold Temp Mode on ALCT chargers is recommended for temperatures below 5° C. This mode guarantees that the battery is 100 % fully charged even in cold temperatures.



### REFRESH Mode

In refresh mode the ALCT chargers recognize automatically when a battery is deeply discharged and gently pulse a current for 20 minutes until a basic voltage is reached and then full charging process can begin.



# ALCT 6-24/10

For lead based batteries from 4,5 Ah



6 V | 1 A  
12 V | 10 A  
24 V | 5 A

Automatic voltage detection

Overcharge protection

COLD TEMP mode for complete charging even in cold conditions

REFRESH mode for deeply discharged batteries

Part No. 1.001-0014



# ALCT 6-24/4

For Lead based batteries from 4,5 Ah



6 V | 1 A  
12 V | 4 A  
24 V | 2 A

Automatic voltage detection

Overcharge protection

COLD TEMP mode for complete charging even in cold conditions

REFRESH mode for deeply discharged batteries

Part No. 1.001-0017



# ALCT 6-24/2

For lead based batteries from 1,2 Ah



6 V | 0,5 A  
12 V | 2 A  
24 V | 1 A

Automatic voltage detection

Overcharge protection

COLD TEMP mode for complete charging even in cold conditions

REFRESH mode for deeply discharged batteries

Part No. 1.001-0016



# ALCS 2-12/0.4

For lead based batteries from 1,2 Ah



2 V | 0,4 A  
6 V | 0,4 A  
12 V | 0,4 A

Suitable for stand-by and parallel operation

Overcharge protection

3,5 m long charging cable

Part No. 1.001-0015



# ALCS 2-24A

For lead based batteries from 1,3 Ah



2 V | 0,9 A  
6 V | 0,7 A  
12 V | 0,6 A  
24 V | 0,3 A

Automatic voltage detection

Overcharge protection

Charge current control

Part No. 9164016





The mobile

# power packs

*Do you like to travel, are you on the road a lot or are you drawn out into the wilderness? With the ANSMANN Powerbanks you don't have to do without your smartphone even on the road and in remote places. Recharge it up to eleven times with the ANSMANN Powerbanks. All Powerbanks are tested and certified by TÜV Süd GS.*

# FEATURES

## POWERBANKS



### MULTISAFE Technology

Our multiple safety technology protects you and your device against overload, deep discharge, short circuit and overload.



### Wireless CHARGING

Some of our power banks are equipped with the so-called Qi charging technology. This allows you to charge your Qi-capable end device conveniently and wirelessly.



### QUICK CHARGE 3.0 compatible

Qualcomm Quick Charge 3.0 technology allows you to quickly charge your device. This allows your device to be charged up to 80 % in just 35 minutes.



### Power DELIVERY

Power Delivery is a new fast-charging standard that can deliver up to 100 watts of power using the new USB Type C connector. This also allows compatible notebooks to be charged without a special power supply unit.

# The power delivery

## power package

This practical Powerbank from ANSMANN with its elegant design is light, powerful and always to hand. Due to its compact design, the lightweight power storage unit fits easily in pockets or bags. Equipped with the USB to Micro USB charging cable, it is the ideal companion when you are on the go.

 15.000 mAh  USB Type C PD  2x USB  18 W

Integrated power delivery (PD) protocol for fast charging of e.g. smartphones

Input: max. 9 V DC | 2 A

Intelligent charge control ensures optimised charging

Output: max. 12 V | max. 1.5 A

Multisafe technology protects your end device and the charger

Part No. 1700-0114

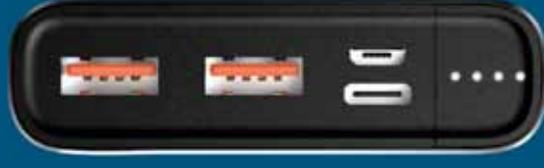


incl. USB Type C to Micro USB cable



 Quick Charge **COMPATIBLE 3.0**

**PD** Power Delivery



# POWERBANK

# 15.0 PD

All technical data on page 178

# POWERBANK 24.0 PD



24,000 mAh

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



Intelligent charge control ensures optimised charging

USB Type C

Multisafe technology protects your end device and the charger



2x USB

Input: max. 9 V DC | 2 A

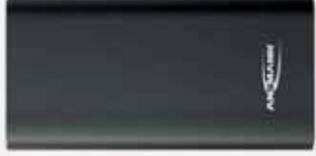
Output: max. 12 V | max. 1.5 A



18 W

Part No. 1700-0112

# POWERBANK 20.0 PD



20,000 mAh

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



Intelligent charge control ensures optimised charging

USB Type C

Multisafe technology protects your end device and the charger



2x USB

Input: max. 9 V DC | 2 A

Output: max. 12 V | max. 1.5 A

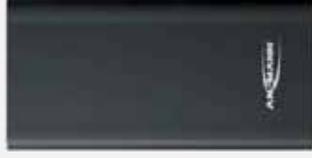


18 W

Part No. 1700-0113



# POWERBANK 10.0 PD



10,000 mAh

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



2x USB

USB Type C

Intelligent charge control ensures optimised charging

Multisafe technology protects your end device and the charger

Input: max. 9 V DC | 2 A

Output: max. 12 V | max. 1.5 A

Part No. 1700-0115

18 W

GS logo

**POWER DELIVERY  
EXTREMELY  
HIGH SECURITY**

Further information on Power Delivery on page 62



Overheating protection



Overload protection (current + voltage)



Deep discharge protection



Short circuit protection



Automatic switch-off

# The compact everyday companion

This practical Powerbank from ANSMANN with its elegant design is light, powerful and always to hand. Due to its compact design, the lightweight power storage unit fits easily in pockets or bags. Equipped with the USB to Micro USB charging cable, it is the ideal companion when you are on the go.



Intelligent charge control ensures optimised charging

Multisafe technology protects your end device and the charger

Extra compact housing for optimal portability

Input: 5 V DC | 2 A

Output: 5 V | max. 2,4 A

Part No. 1700-0091



# POWERBANK

# 10.8 MINI

All technical data on page 179

Powerbanks 82 // 83



# POWERBANK 20.8



20,000 mAh



2x USB



12 W

Suitable for devices that are charged or operated via USB

Multisafe technology protects your end device and the charger

Input: max. 5 V DC | 2 A

Output: max. 5 V | max. 2.4 A

Part No. 1700-0068



# POWERBANK 10.8



10,000 mAh



2x USB



12 W

Suitable for devices that are charged or operated via USB

Multisafe technology protects your end device and the charger

Available in matt black and white

Input: max. 5 V DC | 2 A

Output: max. 5 V | max. 2.4 A

Part No. black 1700-0067  
Part No. white 1700-0067-1



# POWERBANK 8.0 WIRELESS



8,000 mAh



Qi ready



2x USB



USB: 12 W  
Qi: 5 W

Contactless inductive charging with compatible device

LED strip on the back for use as a small flashlight

Multisafe technology protects your end devices and the charger

Input: max. 5 V DC | 2 A

Output: 5 V | max. 2.1 A

Output Wireless: 5 V | 1.0 A

Part No. 1700-0109



# POWERBANK SLIM



4,000 mAh



USB



5 W

Suitable for devices that are charged or operated via USB

Multisafe technology protects your end devices and the charger

Available in the colours rose gold and silver

Input: max. 5 V DC | 1 A

Output: max. 5 V | 1 A

Part No. silver 1700-0110  
Part No. rose 1700-0111



# POWERBANK 5.4



5,000 mAh



2x USB



12 W

Suitable for devices that are charged or operated via USB

Multisafe technology protects your end devices and the charger

Price-performance winner in the computer picture 01/2019 & TÜV GS Rheinland certified

Input: max. 5 V DC | 2 A

Output: max. 5 V | max. 2.4 A

Part No. 1700-0066



5,000 mAh



2x USB

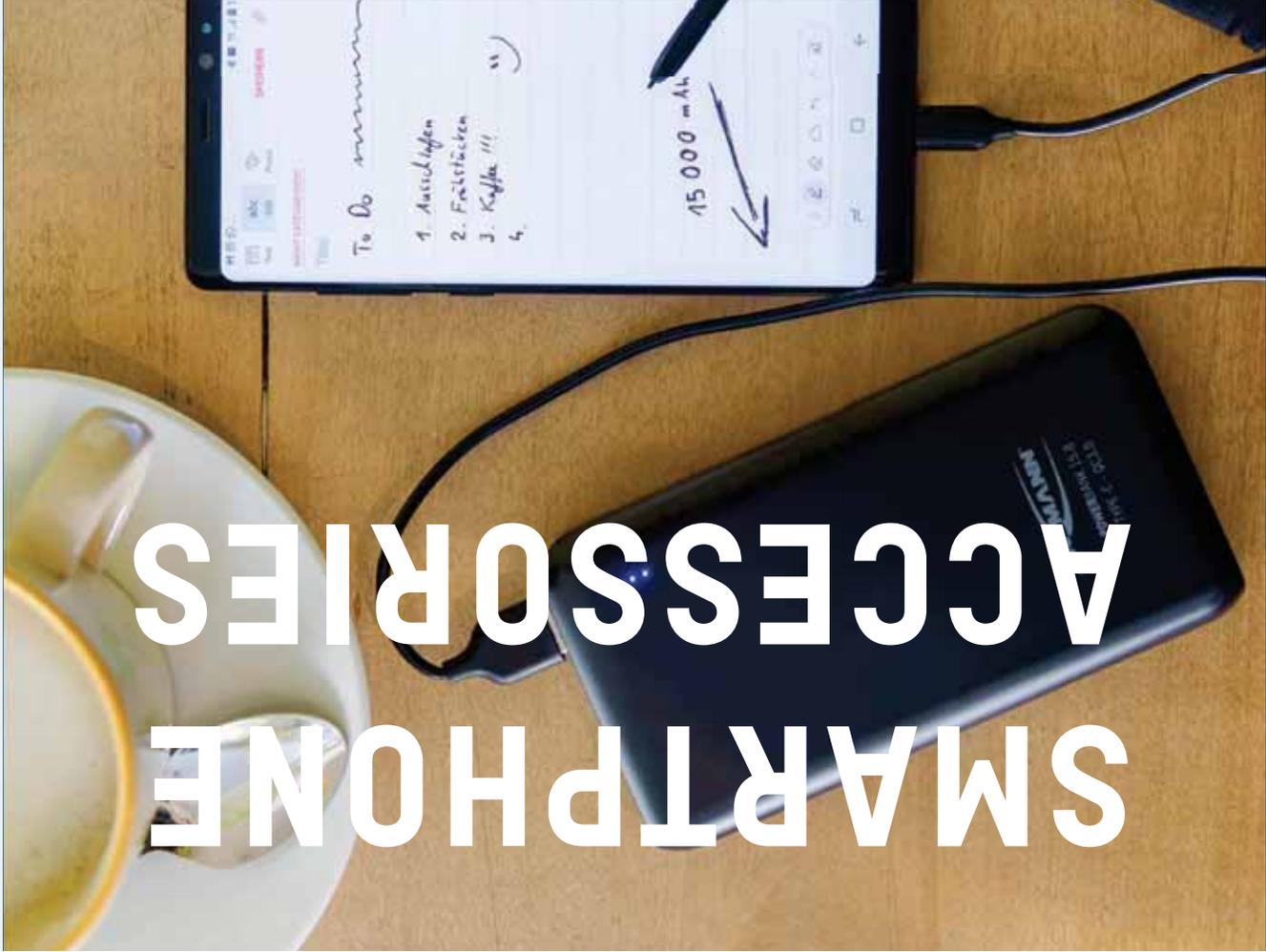


12 W



All technical data on page 178

# SMARTPHONE ACCESSORIES



## The right connection for all

*Whether USB, USB Type C, one, two or even five devices, with the modern and contemporary ANSMANN USB chargers and USB cables you can charge almost any device. Besides powerful and universal solutions the ANSMANN range also includes clever combinations and practical bundles.*

# USB CABLE

## FEATURES



**ALUMINIUM  
housing**

Due to the highly flexible cable made of PVC free TPE plastic and the robust aluminium housing with injection moulded strain relief, the ANSMANN cable combines two characteristics which make this cable extremely resistant to wear and tear.



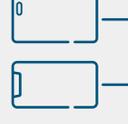
**3 years  
WARRANTY**

We are so convinced of the quality of our chargers that we offer an extended warranty, ensuring customers' peace of mind.



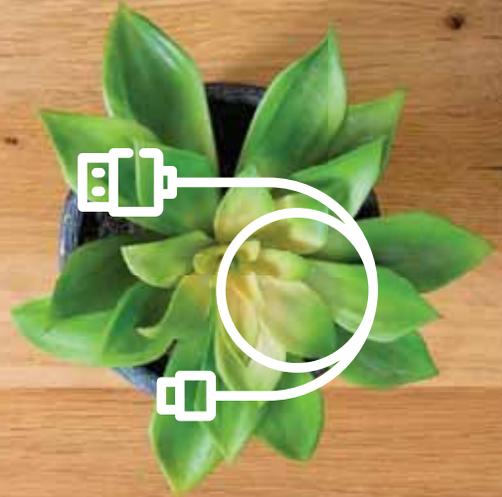
**Ultra  
FAST**

The ANSMANN cables charge and synchronize ultra fast with a speed of up to 5 Gbit/s. Furthermore, our cables support all common fast charging technologies - including Quick-Charge technology and Power Delivery.



**UNIVERSALLY  
applicable**

ANSMANN cables are compatible with all common end devices which have an USB connector, such as smartphones, tablets, game consoles, cameras, GPS devices, powerbanks, bluetooth speakers and e-readers or Apple Lightning.



## MICRO USB CABLE

120 cm | 200 cm | Micro USB

Very robust thanks to PVC-free plastic

Aluminium connector housing

Data transmission with up to 480 Mbit/s

Compatible with all end devices with Micro USB connection

120 cm: Part No. 1.700-0076

200 cm: Part No. 1.700-0077



## LIGHTNING CABLE

120 cm | 200 cm | Lightning

Very robust thanks to PVC-free plastic

Aluminium connector housing

Data transmission with up to 480 Mbit/s

Compatible with all end devices with Lightning connection

120 cm: Part No. 1.700-0078

200 cm: Part No. 1.700-0079



Made for iPhone | iPad | iPod

## TYPE C TO LIGHTNING CABLE

Very robust thanks to PVC-free plastic

Aluminium connector housing

Data transmission with up to 480 Mbit/s

Compatible with all end devices with Lightning connection

120 cm: Part No. 1.700-0106 | 200 cm: Part No. 1.700-0107



120 cm  
200 cm



Micro USB



Lightning

Made for iPhone | iPad | iPod

## TYPE C TO TYPE C CABLE

120 cm | 200 cm | USB Type C

Very robust thanks to PVC-free plastic

Aluminium connector housing

Data transmission with up to 5 Gbit/s

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

120 cm: Part No. 1.700-0121 | 200 cm: Part No. 1.700-0122



120 cm  
200 cm



Micro USB

USB Type C

## 2IN1 MICRO | LIGHTNING CABLE



120 cm



Micro USB



Lightning

Very robust thanks to PVC-free plastic

Aluminium connector housing

Data transmission with up to 480 Mbit/s

Practical interchangeable plug compatible with all end devices with Micro USB and Lightning connection

Part No. 1.700-0082

Made for iPhone | iPad | iPod

## 2IN1 MICRO | TYPE C CABLE

Very robust thanks to PVC-free plastic

Aluminium connector housing

Data transmission with up to 480 Mbit/s

Practical interchangeable plug compatible with all end devices with Micro USB and USB Type C connection

Part No. 1.700-0083



120 cm



Micro USB



USB Type C



## TYPE C CABLE

Very robust thanks to PVC-free plastic

Aluminium connector 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. 1.700-0080 | 200 cm: Part No. 1.700-0081



120 cm  
200 cm



Micro USB

USB Type C

# PHONE- HOLDER

## FEATURES



### MAGNETIC mounting

The ultra strong magnet provides an absolutely stable hold, even on poor road surfaces or rough ground. Thanks to the high quality of our magnetic holders your device is safe and secure.



### Variable MOUNTING

ANSMANN offers smartphone mounts in different versions for all vehicles. From mounts for windcreens to compact mounts for ventilation grilles to the combination of charger and mount.



### 3 years WARRANTY

We are so convinced of the quality and performance of our chargers that we offer an extended warranty, ensuring customers' peace of mind.



# MAGNETIC HOLDER for ventilation grilles



Quick and easy installation on the ventilation grille

2 ultra thin metal plates for insertion or plates fixed using the self adhesive pads supplied

360° rotatable

Very good hold due to the strong magnet

Simple timeless design

Part No. 1.700-0069

# USB CAR CHARGER with smartphone cradle

USB car charger with smartphone cradle

360° rotatable thanks to ball joint

Intelligent charge control

Input: 12 – 24 V DC | max. 1,5 A

Output: 5 V DC | max. 2,4 A

Includes USB to Micro USB data and charging cable

Part No. 1000-0011



All technical data on page 180

# MAGNETIC HOLDER for windscreens



Quick and easy installation using a strong suction cup on the windscreen

2 ultra thin metal plates for insertion or plates fixed using the self adhesive pads supplied

360° rotatable thanks to ball joint

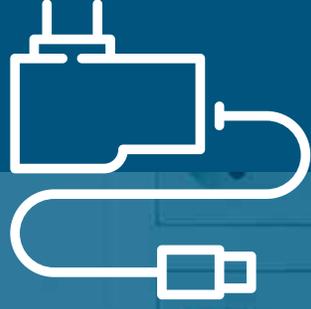
Very good hold due to the strong magnet

Simple timeless design

Part No. 1.700-0070



# UNIVERSAL POWER SUPPLIES



In every aspect

# universal

*ANSMANN universal power supplies are the perfect economical solution for a variety of devices. These power supplies are all voltage stabilized, protected against short-circuit and available in different power ratings.*

# APS 300 | 600 | 1000 | 1500



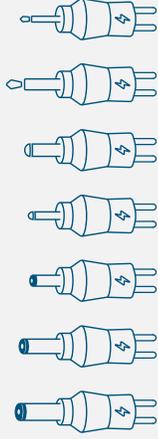
Short circuit proof

Voltage stabilized

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

Hollow connector: 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 | 2250H

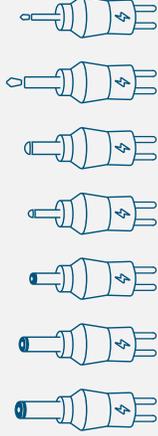
Short circuit proof

Voltage stabilized

Adjustable output voltages:  
2250L: 5 V / 6 V / 7,5 V / 9 V / 12 V / 13,5 V / 15 V DC  
2250H: 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

Hollow connector: 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

<b>Output voltage</b>	3 - 12 V	3 - 12 V	3 - 12 V	3 - 12 V
<b>Output current</b>	max. 600 mA - 300 mA	max. 600 mA	max. 1000 mA	max. 1500 mA
<b>Output power</b>	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 APS 2250H

<b>Output voltage</b>	5 - 15 V	12 - 24 V
<b>Output current</b>	max. 2250 - 1800 mA	max. 2250 - 1000 mA
<b>Output power</b>	max. 27 W	max. 27 W
	Part No. 1201-0025	Part No. 1201-0026



All technical data on page 181.

# TRAVEL ADAPTERS



Your practical

# Travel-buddy

*ANSMANN travel plugs are absolutely safe, always reliable and of highest quality. Whether laptop, hair dryer, camera or smartphone - ANSMANN travel plugs provide unlimited energy worldwide.*

 Travel plugs do not convert mains voltage!

# WORLD TO EU



Compact travel plug with protected connections

Applicable connector systems:  
USA, Australia, Great Britain, Italy, Switzerland, Brazil

For devices of protection class I & protection class II

100 - 250 V AC | max. 16 A

Part No. 1250-0011



AU  
EU  
IT  
USA  
UK  
CH  
etc.



Universal travel adapter for devices with 2 or 3-pin plugs for use in over 150 countries worldwide

Applicable connector systems:  
USA, Australia, Great Britain, Italy, Switzerland, Euro, Brazil

For devices of protection class I & protection class II

100 - 250 V AC | max. 6.3 A

Part No. 1809-0000

# WORLD TO EU + USB



Compact travel plug with protected connections incl. USB charging connection

Applicable connector systems:  
USA, Australia, Great Britain, Italy, Switzerland, Brazil

For devices of protection class I & protection class II

100 - 250 V AC | max. 16 A

Part No. 1250-0012



USB



AU  
EU  
IT  
USA  
UK  
CH  
etc.



Universal travel adapter for devices with 2-pin plugs for use in over 150 countries worldwide

Applicable connector systems:  
Euro, Great Britain, USA/ Japan, Australia/China

For devices of protection class II

100 - 250 V AC | max. 2.5 A

Part No. 1250-0006

## EU TO UK



UK, Hong Kong, Malaysia, Singapore, etc.

Compact travel plug with protective conductor

For devices of protection class I & protection class II

Suitable for use with plug systems Europe (Schuko and 2-pole)

250 V AC | max. 10 A

Part No. 1250-0031

## EU TO US



USA, Canada, Brazil, Mexico, Cuba, Thailand, etc.

Compact travel plug with protective conductor

For devices of protection class I & protection class II

Suitable for use with plug systems Europe (Schuko and 2-pole)

125 V AC | max. 15 A

Part No. 1250-0032

## EU TO AU



Australia, Argentina, China, Naples, New Zealand, etc.

Compact travel plug with protective conductor

For devices of protection class I & protection class II

Suitable for use with plug systems Europe (Schuko and 2-pole)

250 V AC | max. 6.3 A

Part No. 1250-0033

## EU TO CH



Switzerland, Liechtenstein, Maldives, etc.

Compact travel plug with protective conductor

For devices of protection class I & protection class II

Suitable for use with plug systems Europe (Schuko and 2-pole)

250 V AC | max. 10 A

Part No. 1250-0034

## EU TO IT



Italy, Albania, Ethiopia, Chile, etc.

Compact travel plug with protective conductor

For devices of protection class I & protection class II

Suitable for use with plug systems Europe (Schuko and 2-pole)

250 V AC | max. 10 A

Part No. 1250-0035

# ALL IN ONE 2

# LED LIGHT

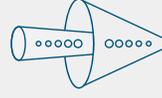


## The sheer **Power**

*ANSMANN lights offer the highest performance whether in the wilderness or in the office or at home. With perfect lighting solutions from ANSMANN you will never be in the dark. From the professional user to the occasional household user, the ANSMANN range offers the right light for everyone.*

# PROFES- SIONAL

## FLASHLIGHT FEATURES



### QUICK ZOOM

Sometimes you need the lamp at close range, sometimes you have to illuminate objects over long distances. By using different focusing systems, the beam can be quickly and easily changed from point focus to flood light.



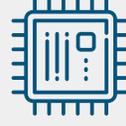
### Tactical FUNCTIONS

In combination with the micro-controller controlled end cap switch, the M-Series is suitable for tactical applications and allows the silent switching of different light levels. Morse and Strobe functions are also possible.



### Splash-PROOF

The professional lamps are protected against dust and splash water according to IP54 and are shockproof up to 1 m drop height.



### MICRO CHIP controlled

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

focusable, tactical

# The Professional

The professional 5 W LED torch M350F impresses with its optimal housing proportions and the non-slip surface. In combination with the micro-controller controlled end cap switch, the M350F is suitable for tactical applications and allows the silent switching of different light levels.



320 lm



140 m



12 h

5 W CREE high-power LED

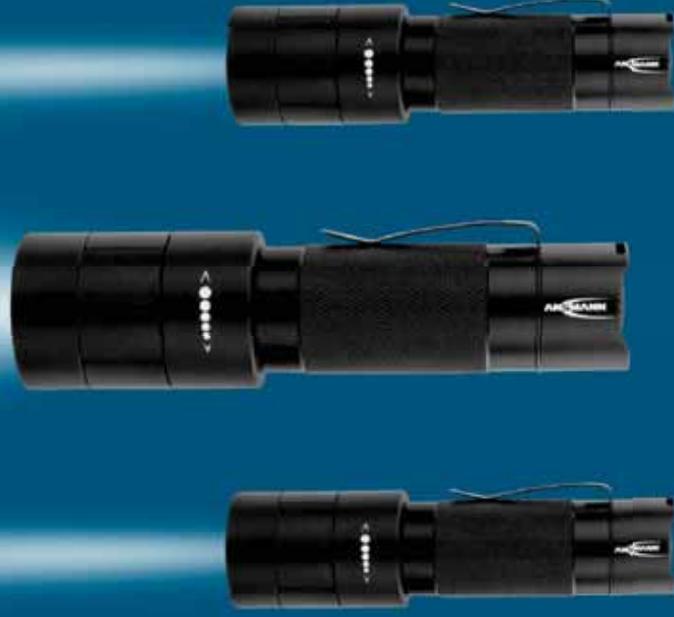
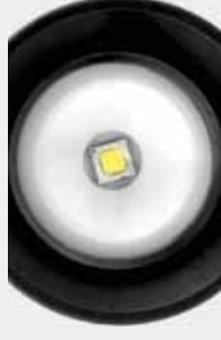
5 lighting functions: Boost | 100% | 30% | strobe | morse function

Stepless focusing by turning the ring on the lamp head

Incl. 4x Micro AAA Alkaline batteries

Part No. 1600-0172

Splashproof according to IP54 and shockproof up to 1 meter fall height



# M350F

## M100F



115 lm <math>\triangleleft</math> 70 m



5 h

3 W-LED technology

Stepless focusing by sliding the lamp head

Splashproof according to IP54 and shockproof up to 1 meter fall height

3 lighting functions: 100% | 30% | strobe

Incl. 1x Mignon AA Alkaline battery

Part No. 1600-0170



## M200F



240 lm



120 m



22 h

versatile,  
focus-  
able,  
non-slip



5 W-Cree-High Power LED

Stepless focusing by turning the ring on the lamp head

Splashproof according to IP54 and shockproof up to 1 meter fall height

3 lighting functions: 100% | 30% | strobe

Incl. 2x Mignon AA Alkaline batteries

Part No. 1600-0173

## M250F



260 lm <math>\triangleleft</math> 150 m



10 h

5 W-Cree-High Power LED

Stepless focusing by turning the ring on the lamp head

Splashproof according to IP54 and shockproof up to 1 meter fall height

3 lighting functions: 100% | 30% | strobe

Incl. 3x Micro AAA Alkaline batteries

Part No. 1600-0171



## M900P



930 lm



240 m



20 h



10 W-Cree-High Power LED

Highly efficient reflector system for optimum light output

Dust and water protection according to IP67 and shockproof up to 1 meter fall height

4 lighting 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

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



#### STROBE

With the stroboscopic function you can efficiently and passively defend yourself. The potential attacker is disoriented and blinded by the strobing light.



#### FULL POWER

A high luminous flux makes it possible to illuminate the surroundings at wide angles or great distances.



#### MORSE

Tactical light signals can be sent using the Morse function. The lamp only lights up as long as the switch is pressed.



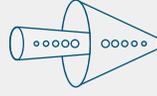
#### LOW POWER

Especially at close range, less is more. Without self-dazzling, the low-power mode saves energy and maximizes runtime.



# OUTDOOR

## FLASHLIGHT FEATURES



### Stepless QUICK ZOOM

Sometimes you need the lamp at close range, sometimes you have to illuminate objects over long distances. By simply moving the lamp head, the clean, even beam can be quickly and easily changed from point focus to flood light.



### Dynamic LIGHT

In many professional applications the right light is of elementary importance. With a long keystroke the light can be dimmed continuously from 100% light output to 20% brightness.



### Light functions DIMMABLE

When 100% light is not always needed, dimming the light not only saves energy, but also avoids dazzling the operator. With the infinitely variable dimming function, you always have just the right amount of light where it is needed.



### Rechargeable LI-ION BATTERY

A rechargeable Li-ion battery not only serves as a reliable and powerful energy source, but is also replaceable at any time due to the modular design of the lamp. So you decide: Charge your battery conveniently directly via the connector in the lamp or change the battery and charge the empty cells in the external charger.



# Rechargeable

# All-rounder

The high-performance flashlight Future T350FR has been specially designed for demanding users and is the first choice for anyone who wants to use a handy yet bright flashlight. The energy-saving and highly efficient Cree LED provides enormous brightness and range.



300 lm



110 m



5,5 h



Recharge

5 W-Cree-High Power LED

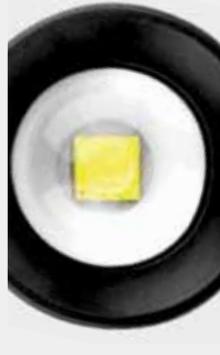
Stepless focusing by moving the lamp head

Integrated USB plug for direct charging at standard USB socket

Battery charge status display integrated in the button

4 lighting functions: 100% | 20% | strobe | dimmer function

Part No. 1600-0247



# T350FR

# MULTI 3IN1



 220 lm

 184 m

 11 h

Multifunctional light with 10 W-LED

Stepless focusing by moving the lamp head

Three lamps in one light - focusable flashlight, work light and signal flashing light

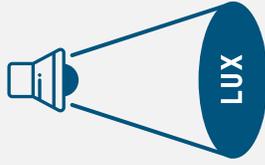
Strong holding magnet for attachment to metal

Incl. 3x Micro AAA Alkaline batteries

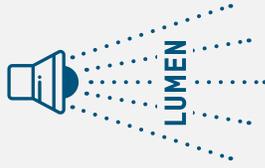
Part No. 1600-0137

## LUX & LUMEN

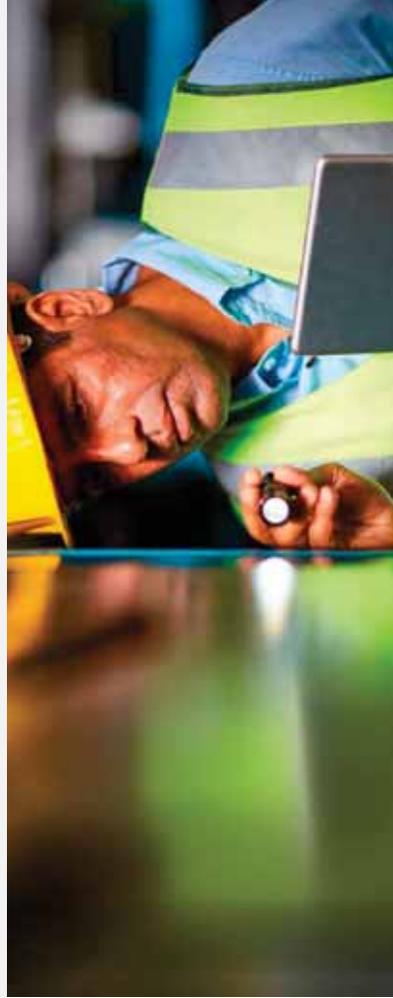
### WHAT IS THE DIFFERENCE?



Lux describes how much light from the light source arrives at a given 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.



All technical data on page 186

## T120

 130 lm  75 m  4 h



Aluminium penlight with 3 W-LED

Splash-proof according to IP54

Use of the latest LED technology

Highly efficient reflector system for optimum light yield

Incl. 2x Micro AAA Alkaline batteries

Part No. 1600-0160

## T50F

 60 lm  75 m  2,5 h



Aluminium torch with 3 W-LED

Stepless focusing by moving the lamp head

Extra small and space saving

Ideal for one-hand operation due to the non-slip surface

Incl. 1x Mignon AA Alkaline battery

Part No. 1600-0159

## T60F

 55 lm  80 m  0,7 h



Keychain light with 3 W-LED

Stepless focusing by moving the lamp head

Lightweight with only 33.5 grams

Perfect for the key ring

Incl. 1x Micro AAA Alkaline battery

Part No. 1600-0259

## T150

 150 lm  150 m  10 h



Aluminium torch with 3 W-LED

Splashproof according to IP54 and shock-proof up to 1 meter fall height

Latest CREE LED technology

Highly efficient reflector system for optimum light yield and range

Incl. 2x Mignon AA Alkaline batteries

Part No. 1600-0145



## T200F

5 W-Cree-High Power LED  
200 lm  
175 m  
13 h



Stepless focusing by moving the lamp head

Splashproof according to IP54 and shockproof up to 1 meter fall height

2 lighting functions: 100% | 30%

Incl. 3x Micro AAA Alkaline batteries

Part No. 1.600-0138

## T300F

5 W-Cree-High Power LED  
320 lm  
110 m  
7 h



Quick and stepless focusing by rotating the lamp head

Splashproof according to IP54 and shockproof up to 1 meter fall height

Low energy consumption and reduced heat generation

Incl. 2x Baby C Alkaline batteries

Part No. 1.600-0202

## T400FR

400 lm  
175 m  
9 h

versatile and rechargeable



5 W-Cree-High Power LED

Stepless focusing by moving the lamp head

Rechargeable battery system - replaceable battery

4 lighting functions: 100% | 30% | strobe | SOS function

Incl. exchangeable 18650 Li-Ion battery pack

Part No. 1.600-0150

## T500F

710 lm  
170 m  
43 h

strong, handy and powerful



10 W-Cree-High Power LED

Quick and stepless focusing by rotating the lamp head

Super long runtime due to strong Mono D alkaline batteries

Perfect for security services

Incl. 3x Mono D Alkaline batteries

Part No. 1.600-0203

## T600FRB

620 lm  
165 m  
27 h



5 W-Cree-High Power LED

Stepless focusing by moving the lamp head

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

5 lighting functions: 100% | 25% | 10% | strobe | SOS function

Incl. 3x Micro AAA Alkaline batteries

Part No. 1.600-0268

Recharge

## LIGHTING FUNCTIONS

### WHAT DO THE DIFFERENT LIGHT FUNCTIONS MEAN?

#### FULL POWER

A high luminous flux makes it possible to illuminate the surroundings at wide angles or great distances.



#### STROBE

With the stroboscopic function you can efficiently and passively defend yourself. The potential attacker is disoriented and blinded by the strobing light.



#### LOW POWER

Especially at close range, less is more. Without self-dazzling, the low-power mode saves energy and maximizes runtime.



#### SOS

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



#### DIM

With a long press of the button, the light can be dimmed continuously from 0-100%



## X10

LED technology with efficient reflector system

25 lm

50 m

22 h

Ideal for car, handbag or bedside table

Degree of protection according to IPX4 and robust aluminium housing

Extra small and space saving

Incl. 1x Mignon AA Alkaline battery

Part No. 1600-0153



## X15

Small and handy LED penlight

15 lm

20 m

45 h

Ideal for work jacket or inspection case

Robust metal housing in attractive and slim design

Large on/off switch for maximum operating comfort even with gloves

Incl. 2x Micro AAA Alkaline batteries

Part No. 1600-0169



## X20

Shockproof aluminium housing in attractive design

LED technology with efficient reflector system

25 lm

85 m

30 h

Degree of protection according to IPX4 and robust aluminium housing

Long run time

Incl. 2x Mignon AA Alkaline batteries

Part No. 1600-0154



## X30

Shockproof aluminium housing in attractive design

LED technology with efficient reflector system

40 lm

110 m

40 h

Degree of protection according to IPX4 and robust aluminium housing

Long lighting time thanks to powerful Baby C batteries

Incl. 2x Baby C Alkaline batteries

Part No. 1600-0155



## ACCESSORIES FOR YOUR FLASHLIGHT

### UNIVERSAL HOLSTER



Lamp diameter up to 34 mm

Lamp length up to 150 mm

3 different closure heights adjustable

Suitable for M Series, T Series and X Series

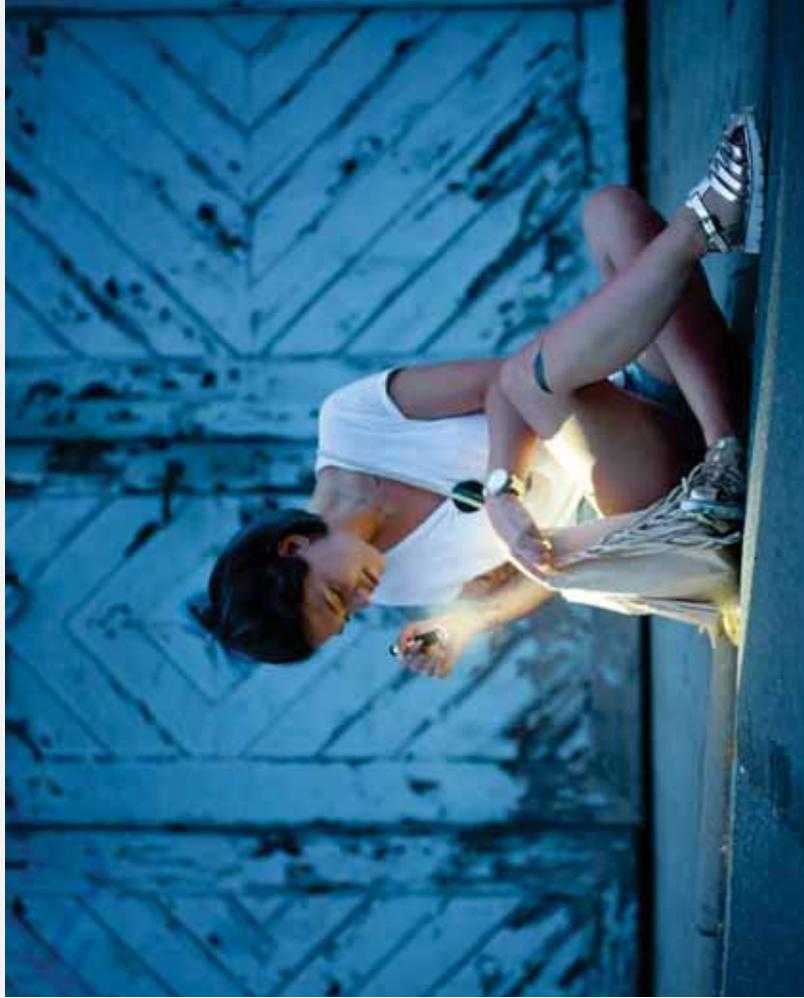
Part No. 1600-0017

### UNIVERSAL LAMP HOLDER

Lamp diameter from 25 - 34 mm

Suitable for M Series, T Series and X Series

Part No. 1600-0080

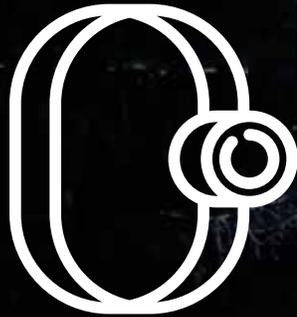


All technical data on page 185

# HEAD- LIGHTS

## FEATURES

*Headlights show you the way - whether you are jogging or cycling, with rescue services, mountaineers or technicians. With ANSMANN Headlights you have both hands free and the light always in the right place.*



### Adjustable LAMP HEAD

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



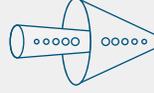
### SENSOR Mode

In many situations it is important to have both hands free. That is why we have developed a switch with which the headlamp can be switched on and off with a simple wipe gesture. To activate and deactivate the sensor, just click on the sensor switch.



### 3 years WARRANTY

We are so convinced of the quality of our lighting products that we offer an extended warranty, ensuring customers' peace of mind.



### Stepless QUICK ZOOM

Sometimes you need the HD500R lamp at close range, sometimes you need to illuminate objects over long distances. By simply rotating the lamp head the super-even beam can be quickly and easily adjusted from spot to flood light.



# HD150BS

## Handsfree thanks to sensor Head miracle

*Professional headlamps are not only popular in everyday life with joggers and cyclists, but also in industry, trade, rescue services, camping, mountain climbers and fishermen. Thanks to the built-in sensor, both hands remain free and the light is always in exactly the right place!*



190 lm



75 m



30 h

High-quality LED technology with 5 W LED

Sensor technology - easy switching on and off through hand gesture control

Tilt angle of the lamp head and up to 45° individually adjustable

Super light with flexible, adjustable headband and pleasant wearing comfort

3 lighting functions: 100% High Power mode | 30% Eco mode | Additional LEDs

Incl. 3x Micro AAA Alkaline batteries

Part No. 1600-0199



All technical data on page 188

# HD70B



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



Up to 45° individually adjustable tilt angles



Splash-proof according to IP44



3 lighting functions: Main LED 100% | 25% | Side LEDs 100%

Incl. 1x Mignon AA Alkaline battery

Part No. 1.600-0260



# HD500R

10 W high-power LED for optimum illumination

Up to 90° individually adjustable tilt angles

Dust and splash-proof according to IP64

Quick and stepless focusing by moving the lamp head

4 lighting functions: 100% | 50% | 25% | strobe

Part No. 1.600-0325



550 lm



160 m



19 h



Recharge

# HD200B

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

Up to 45° individually adjustable tilt angles

Splash-proof according to IP44

4 lighting functions: 100% High Power mode | 100% 3 W LED | 100% COB LED | 30% COB LED

Incl. 3x Micro AAA Alkaline batteries

Part No. 1.600-0198



185 lm



50 m



17 h



125 lm



14 m



15 h

1 W-COB-LED for optimal illumination

Small and lightweight housing

Flexible and adjustable headband

2 lighting functions: 100% | 30%

Incl. 3x Micro AAA Alkaline batteries

Part No. 1.600-0357

# HD250RS



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



Integrated battery pack 3.7 V and 1200 mAh (4,44 Wh)

51 m

Up to 45° individually adjustable tilt angles



Sensor technology - easy switching on and off through hand gesture control

9 h

4 lighting functions: 100% COB - S Cree-LED | 100% Cree-LED | 100% COB-LED | 30% COB-LED



Recharge

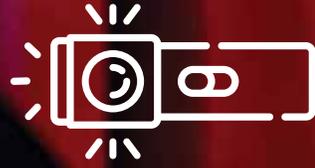
Part No. 1.600-0224



# WORK LIGHTS

## FEATURES

*The ANSMANN work lights are the professional companion for your work. Ideal for repairs in work-shops, trade and industry sectors. These flexible lights with the latest LED technology are indispensable.*



### MAGNETIC mounting

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 battery ensures long lighting time with constant brightness. The lamp can be charged with a universal USB charger directly at the socket or via a car adapter in the vehicle.



### Hazard MODE

The ANSMANN work lights are not just for the workshop or construction sites. Various models have a hazard flashing mode protecting the user at breakdowns, accidents or other dangerous situations in the dark.

# Swivelling

# Workhorse

The HS20R Pro is a robust and reliable battery-powered handheld searchlight for industrial, commercial, hunting or security services. With a flashing function along with the included orange filter the lamp can be used as a warning light. It can also be tilted up to 90 degrees for perfect positioning.



1700 lm



470 m



10 h



Recharge

Extremely bright due to 3 LEDs (Cree LED) with an output of max. 20 W

Permanently installed lithium-ion battery (3,7 V / 10.400 mAh)

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

Extra strong holding magnet fixes the lamp to all metallic objects

Can be used as emergency light due to the switchable power failure electronics

Part No. 1600-0223



# HS20R PRO

# HS5R



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

Permanently installed lithium battery (3,7 V / 2.600 mAh)

3 lighting functions: 100% | 25% | flashing light

Extra strong holding magnet fixes the lamp to all metallic objects

Can be used as emergency light due to the switchable power failure electronics

Part No. 1.600-0222

Recharge



4500 lm

80 m

12 h

Recharge

# HS4500R DUO

Extremely bright due to 120 LEDs with a maximum power of 60 W

Exchangeable lithium-ion battery (14,8 V / 5.200 mAh)

Stand can also be used for hanging

Lighting units can be rotated separately

LED status display for battery capacity

Part No. 1.600-0358



All technical data on page 190

# IL150B



150 lm

16 m

20 h

Durable 3 W-COB-LED with a very even working light

Additional 1 W-LED in lamp head for multifunctional use

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

3 lighting functions: Top LED 100% | COB LED 100% | COB LED 30%

Incl. 3x Micro AAA Alkaline batteries

Part No. 1.600-0211

## ACCESSORIES

### FOR YOUR WORKING LAMP

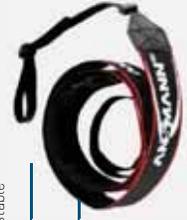
#### CARRYING STRAP PORTABLE SEARCHLIGHT

Suitable for HS1000FR, HSSR & HS20R Pro

Carrying length individually adjustable from 50 cm to 75 cm

Total belt length approx. 160 cm

Part No. 1.600-0022



#### BATTERY PACK FOR HS4500R DUO

Suitable for work lights HS4500R

14,8 V / 5.200 mAh

With capacity indicator & USB output

Part No. 1.400-0080



# WL280B



280 lm



36 m



25 h

Professional inspection light with latest 3 W SMD LED technology

Small additional light on the lamp head

Lamp handle can be rotated 180° and locked in six positions for flexible light alignment with hooks that can be rotated 360°

Two strong holding magnets at the bottom of the lamp handle

Incl. 3x Mignon AA Alkaline batteries

Part No. 1.600-0179



# WL200B



220 lm



14 m



8,5 h

Professional workshop light with latest 3 W SMD LED technology

Small additional light on the lamp head

340° rotatable lamp handle, lockable in twelve steps for flexible light orientation with 360° rotatable hooks

Ultra strong holding magnet at the bottom of the handle

Incl. 3x Micro AAA Alkaline batteries

Part No. 1.600-0180



# WL250B



215 lm



19 m



7,5 h

compact,  
magnetic,  
low-cost



Professional workshop light with latest 3 W COB LED technology

Additional LED in lamp head for multifunctional use

3 holding magnets on the back of the lamp

Robust and shockproof plastic housing

Incl. 3x Micro AAA Alkaline batteries

Part No. 1.600-0265

# WL30B



40 lm



7 m



4,5 h



Professional workshop light with latest COB-LED technology

ABS plastic housing, resistant to mechanical stress

Including practical retaining clip

Incl. 1x ANSMANN Alkaline Micro AAA battery

Part No. 1600-0302



# WL180B

Professional workshop light with latest 3 W-COB-LED technology

ABS plastic housing, resistant to mechanical stress

Including 4 bits (TX15 | TX20 | PH1 | PH2)

Magnet & holding hook on the back

2 lighting functions: 100% | 150% luminosity

Part No. 1600-0303



200 lm



17 m



31 h

# WL450R



490 lm



31 m



23 h



Recharge



compact,  
magnetic,  
low-cost



Professional workshop light with latest 4 W-COB-LED technology

Additional LED (3 W) in lamp head for multi-functional use

ABS plastic housing, resistant to mechanical stress

Integrated Li-Ion 3,7 V battery with safety electronics

Incl. Micro USB-charging cable

Part No. 1600-0304

# FLOOD- LIGHTS

## FEATURES

*Our floodlights are professional spotlights with SMD-LED technology. The reliable lights integrate themselves effortlessly into the demanding everyday life for work in and around the house, e.g. in workshops, construction sites, industry, home, garden, yard or garage.*



For optimum room illumination, it is very important that the light source has the highest possible beam angle. The ANSMANN working spotlights and floodlights are equipped with the latest LED technology with a beam angle of up to 115°.



A permanently installed lithium-ion battery ensures long lighting time with constant brightness. The lamp can be charged directly at the socket with the enclosed charger.



Your everyday work, your projects and construction sites always bring new challenges. To ensure you have the best possible illumination, ANSMANN work lights can be rotated and aligned 360 degrees.



We are so convinced with the quality and performance of our products that we offer an extended warranty of 10 years (battery excluded) on our flood light range.



# LUMINARY FLEX



Battery-powered working spotlight with SMD-LED

Integrated Li-Ion battery pack with safety electronics

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

Battery capacity indication by LEDs.

Flexible use due to stable adjustment angles - the set-up bracket can be adjusted up to 80°, the lamp head even 360°



Rechargeable 5000 K IP 54



## FL800R

800 lm

10 W-SMD-LEDs

7,4 V / 2,200 mAh Li-Ion battery pack

800 lm luminosity

Part No. 1600-0274

## FL1600R

1600 lm

20 W-SMD-LEDs

7,4 V / 4,400 mAh Li-Ion battery pack

1.600 lm luminosity

Part No. 1600-0275

## FL2400R

2400 lm

30 W-SMD-LEDs

11,1 V / 4,400 mAh Li-Ion battery pack

2.400 lm luminosity

Part No. 1600-0276



# LUMINARY BASE



Working spotlight with SMD-LEDs

Integrated 1,8 m long H07RN-F rubber cable for flexible outdoor use

Robust aluminium and ABS housing - extremely shock resistant

Flexible use due to stable adjustment angles - the set-up bracket can be adjusted up to 80°, the lamp head even 360°



Power plug 5000 K IP 54



## FL800AC

800 lm

10 W-SMD-LEDs

800 lm luminosity

Part No. 1600-0277

## FL1600AC

1600 lm

20 W-SMD-LEDs

1.600 lm luminosity

Part No. 1600-0278

## FL2400AC

2400 lm

30 W-SMD-LEDs

2.400 lm luminosity

Part No. 1600-0279

## ACCESSORIES FOR YOUR WORK LIGHTS

### UNIVERSAL TRIPOD

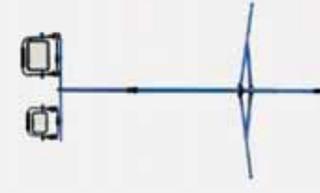
Suitable for FL800R, FL2400R, FL1600AC, FL1600AC, FL2400AC

Can be used for 1-2 lights

Height extendable up to 137 cm

High stability, stand diameter up to 120 cm

Part No. 1600-0315



# WALL SPOTLIGHT

## FEATURES

*Our floodlights are professional spotlights with SMD LED technology. The reliable lights integrate themselves effortlessly into the demanding everyday life for work in and around the house, e.g. in workshops, construction sites, industry, home, garden, yard or garage.*



**SENSOR  
controlled**

ANSMANN wall mounted floodlights switch on automatically - the sensor detects movements in a range of up to 12 metres and ensures that nobody is left in the dark. The lighting time and sensitivity are freely adjustable.



**High  
TRANSMISSION  
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 is used for fixed and flexible connection with low mechanical stress in dry, damp and wet rooms. This makes the spotlight ideal for indoor and outdoor use, as it can withstand the loads at all times.



**10 years  
WARRANTY**

We are so convinced with the quality and performance of our products that we offer an extended warranty of 10 years (battery excluded) on our flood light range.

# LUMINARY HOME



Spotlight for wall mounting with SMD-LED

Instant full power thanks to the latest SMD LED technology

The angle of the emitter is adjustable 190° vertically

Integrated H05RM-F cable with a length of 20 to 30 cm for fixed and flexible connection



# LUMINARY SENSE



Spotlight for wall mounting with SMD-LED

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

Adjustable light intensity - so it is always possible to set under which lighting conditions the spotlight should switch on  
Adjustable light duration from approx. 10 seconds up to 5 minutes

The angle of the emitter is 190° vertically adjustable



## WFL800



10 W-SMD-LEDs

800 lm luminosity

Part No. 1600-0280

## WFL1600



20 W-SMD-LEDs

1.600 lm luminosity

Part No. 1600-0281

## WFL2400



30 W-SMD-LEDs

2.400 lm luminosity

Part No. 1600-0282

## WFL800S



10 W-SMD-LEDs

800 lm luminosity

Part No. 1600-0283

## WFL1600S



20 W-SMD-LEDs

1.600 lm luminosity

Part No. 1600-0284

## WFL2400S



30 W-SMD-LEDs

2.400 lm luminosity

Part No. 1600-0285



All technical data on page 193

LED light 144 // 145

# CAMPING & DECORATION

## FEATURES



### 0-RING LED Lighting

With our camping lights and the built-in professional 360° 0-ring LED you have a uniformly illuminated environment in any position.



### COLOUR Change

The ANSMANN decorative lights in ball shape create the right atmosphere in every situation. You can choose between 12 different ambient colours using the remote control supplied.



### 3 years WARRANTY

We are so convinced of the quality of our lighting products that we offer an extended warranty, ensuring customers' peace of mind.



# CL600B

Professional camping lamp with high quality  
1.5 W O-ring LED

Splash-proof according to IPX4

Pleasant warm white colour temperature (3000 K)

Glare reducing white lens

4 lighting functions: 20% (white) | continuous dimming of the  
white LED (20-100%) | 100% (red LED) | flashing mode (red LED)

Part No. 1.600-0287



 600 lm

 23 m

 41 h

# CL200B

Professional camping lamp with high quality  
3 W O-ring LED

Splash-proof according to IPX4

Pleasant warm white colour temperature (3000 K)

Glare reducing white lens

2 lighting functions: 100% | 10%

Part No. 1.600-0286



 175 lm

 12 m

 94 h

# DECO LIGHT



LED decorative light in ball shape with various colour functions

Splash-proof, floating mood light

Features a magnet on the underside of the luminaire for  
attachment to magnetic surfaces

Available in set of 2 including remote control

Part No. 1.600-0301



All technical data on page 189

# HOME & OFFICE

## FEATURES

*Do you know the many little situations where you think: „I could use a little more light here“. Our everyday helpers for the office or at 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 clear what you want to show with the tested, safe laser.



#### Touch screen PEN

The conductive input pen is suitable for operating all devices with touch screen. For every Smartphone, iPad, iPhone, Tablet etc.

### Night and orientation lights



#### Twilight SENSOR

Thanks to the integrated twilight sensor in the housing, the night light automatically activates or deactivates at dusk. Thus, the light only activates when it is actually dark, saving energy and costs.



#### Motion SENSOR

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

# TWINFLEX

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

Neutral white light with high contrast especially for comfortable reading without eye fatigue

The energy-saving LED technology guarantees extremely long operating times and optimum illumination

The brightness of both lights can be individually adjusted to three functions (100% / 50% / OFF)

Flexible installation due to fastening options via retaining clip or retaining magnet on the battery compartment

Part No. 1.600-0119



50 lm



95 h

## RC 2

12 lm    20 m    3 h

Rechargeable flashlight with 3 LEDs

Integrated, environmentally friendly NiMH battery pack

Lamp head can be swivelled by 90° and is therefore universally applicable

Integrated charging power supply unit for 230 V AC

Part No. 5.101173



## STYLUS TOUCH 4IN1

Multifunctional pen with 4 different functions

LED light with very long range

Laser pointer for lectures and presentations

Stylus for operating devices with touch screen such as smartphones, tablets

Ballpoint pen for analogue correspondence

Part No. 1.600-0271



## KEYCHAIN LIGHT

LED torch in mini format for the key ring

LED light with very long range

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

Ultra-light: 14,5 g incl. button cells

Elegant but still robust aluminium housing

Part No. 1.600-0272



## LASER POINTER 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 screen such as smartphones, tablets

Ballpoint pen for analogue correspondence

Part No. 1.600-0269



## 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 only 6 cm and a diameter of 0,9 cm

With practical key chain and snap hook

Part No. 1.600-0270



## ACTION COB

175 lm    19 m    6 h

Small, practical aluminium torch with COB LED

Lightweight and simple to use

Ideal as a car accessory

Unbeatable value for money

Very low energy consumption ensures a long runtime

Part No. 1.600-0399



All technical data on page 194

# NL25B



25 lm



3x AAA



High quality 2 W COB LED provide a nice even light

With built-in switch to select the lighting functions orientation light and night/sleep light

In sensor mode switch off after approx. 30 seconds

Mounting with integrated magnet, metal plate with foam adhesive tape

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

Part No. 1.600-0405



5 lm



Warm white quality SMD-LEDs provide a nice even light

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

Integrated EU plug-in power supply 220 V - 230 V / 50 Hz

Compact and convenient design

Part No. 1.600-0406



# NL15AC + 2USB

Warm white quality SMD-LEDs provide a nice even light

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

2 x USB output with 1.0 A output current each and 5.0 V Output voltage

Integrated EU plug-in power supply 220 V - 230 V / 50 Hz

Compact and convenient design

Part No. 1.600-0407



15 lm



# NL10AC



5 lm



Warm white quality SMD-LEDs provide a nice even light

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

Integrated EU plug-in power supply 220 V - 230 V / 50 Hz

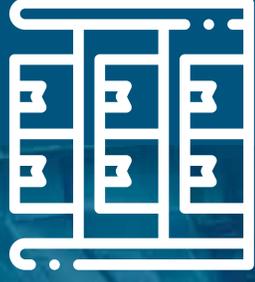
Compact and convenient design

Part No. 1.600-0406





# PRODUCT OVERVIEW



## Technical details

*Compare our products with each other or find important details about the technical specifications of our products. In the complete overview of our products you will find all important data and features worth knowing.*

# RECHARGEABLE BATTERIES

## High Capacity



Product	Micro AAA Typ 1000	Micro AAA Typ 1100	Mignon AA Typ 2700	Mignon AA Typ 2850	Mignon AA Typ 2850 Digital	18650	18650
<b>Electrochemical system</b>	NiMH	NiMH	NiMH	NiMH	NiMH	Li-Ion	Li-Ion
<b>Capacity (mAh)</b>	min. 950	min. 1050	min. 2500	min. 2650	min. 2650	min. 2500	min. 3350
<b>Voltage (V)</b>	1,2	1,2	1,2	1,2	1,2	3,6	3,6
<b>Packaging type</b>	Bulk						
<b>Included batteries</b>	1	1	1	1	1	1	1
<b>PU</b>	50	50	50	50	50	10	10
<b>Part number</b>	5035221 5035201 5035021						
<b>Packaging type</b>	Blister	Blister	Blister	Blister	Blister	Blister	Blister
<b>Included batteries</b>	2	2	2	2	2	1	1
<b>PU</b>	12	12	12	12	12	10	10
<b>Part number</b>	5030892 5035222 5030852 5035202 5035082 1.307-0000 1.307-0001						
<b>Packaging type</b>	Blister						
<b>Included batteries</b>	4	4	4	4	4	4	4
<b>PU</b>	12	12	12	12	12	12	12
<b>Part number</b>	5030892 5035232 5030842 5035212 5035082						



## maxE

Product	Micro AAA 800	Mignon AA 2100	Mignon AA 2500	Baby C 4500	Mono D 8500	Mono D Typ 10000	9 V E-Block Typ 300
<b>Electrochemical system</b>	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH
<b>Capacity (mAh)</b>	800	2100	min. 2400	4500	8500	min. 9300	min. 270
<b>Voltage (V)</b>	1,2	1,2	1,2	1,2	1,2	1,2	8,4
<b>Packaging type</b>	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk
<b>Included batteries</b>	1	1	1	1	1	1	1
<b>PU</b>	50	50	50	25	10	10	25
<b>Part number</b>	5030981 5030891 5035431 5035351 5035361 5030841 5035451						
<b>Packaging type</b>	Blister	Blister	Blister	Blister	Blister	Blister	Blister
<b>Included batteries</b>	2	2	2	2	2	2	1
<b>PU</b>	12	12	12	6	6	6	6
<b>Part number</b>	5030982 5030992 5035432 5035352 5035362 5030642 5035453						
<b>Packaging type</b>	Blister						
<b>Included batteries</b>	4	4	4	4	4	4	4
<b>PU</b>	12	12	12	12	12	12	12
<b>Part number</b>	5035042 5035052 5035442						



## maxE

Product	Micro AAA 550	Mignon AA 1300	Baby C 2500	Mono D 5000	9 V E-Block 200	Micro AAA Phone	Mignon AA Phone
<b>Electrochemical system</b>	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH
<b>Capacity (mAh)</b>	550	1300	2500	5000	200	550	800
<b>Voltage (V)</b>	1,2	1,2	1,2	1,2	8,4	1,2	1,2
<b>Packaging type</b>	Bulk						
<b>Included batteries</b>	1	1	1	1	1	1	1
<b>PU</b>	50	50	10	25	25	12	12
<b>Part number</b>	5030771 5030791 5030821 5035341						
<b>Packaging type</b>	Blister	Blister	Blister	Blister	Blister	Blister	Blister
<b>Included batteries</b>	4	4	2	2	1	2	2
<b>PU</b>	12	12	6	6	6	12	12
<b>Part number</b>	5030772 5030792 5030822 5035342 5035523 5030902						



## maxE

Product	Micro AAA Phone	Mignon AA Phone	Micro AAA Solar	Mignon AA Solar	Micro AAA Photo	Mignon AA Photo	Micro AAA Photo	Micro AAA Photo	Micro AAA Photo	NiZn	NiZn
<b>Electrochemical system</b>	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH	NiZn	NiZn
<b>Capacity (mAh)</b>	800	1300	550	800	min. 800	2400	900 mAh	2500 mAh	2500 mAh		
<b>Voltage (V)</b>	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,6	1,6	1,6	1,6
<b>Packaging type</b>	Blister	Blister	Blister	Blister	Blister	Blister	Blister	Shrink	Shrink	Shrink	Shrink
<b>Included batteries</b>	2	2	2	2	2	2	2	4	4	4	4
<b>PU</b>	12	12	12	12	12	12	12	12	12	12	12
<b>Part number</b>	5035332 5030802 1.311-0001 5035513 5030512 5030492 1.321-0001 1.322-0005										
<b>Packaging type</b>	Blister										
<b>Included batteries</b>	3										
<b>PU</b>	12										
<b>Part number</b>	5030142 5030482										

# CAMERA BATTERY PACKS

## Canon



Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A-Can NB 2 LH	Canon NB-2LH	720	7.4	4	5022873
A-Can NB 4 L	Canon NB-4L	700	3.7	4	5022263
A-Can NB 5 L	Canon NB-5L	850	3.7	4	5022953
A-Can NB 6 L	Canon NB-6L	750	3.7	4	5044653
A-Can NB 7 L	Canon NB-7L	900	7.4	4	5044623
A-Can NB 8 L	Canon NB-8L	750	3.7	4	5044843
A-Can NB 11 L	Canon NB-11L	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 5.1L	Canon BP 5.1L	1400	7.4	4	5022283
A-Can LP ES	Canon LP-ES	1000	7.4	4	5044943
A-Can LP E6	Canon LP-E6	1400	7.4	4	1400-0000
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 20	Casio NP 20	700	3.7	4	5022737/05
A-Cas NP 40	Casio NP 40	1200	3.7	4	50223037/05

## 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	50441337/05
A-Nik EN-EL 10	Nikon EN-EL 10	650	3.7	4	1400-0637
A-Nik EN-EL 12	Nikon EN-EL 12	900	3.7	4	5044683
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	4	1400-0043
A-Nik EN-EL 19	Nikon EN-EL 19	700	3.7	4	1400-0016
A-Nik EN-EL 23	Nikon EN-EL 23	1700	3.7	4	1400-0064

## Olympus



Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A-Oly BLS 1	Olympus BLS-1	1000	7.4	4	5044173
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	50223337/05
A-Oly LI 50B	Olympus LI-50B	850	3.7	4	5044363

## Panasonic



Product	Replaces	Capacity (mAh)	Voltage (V)	PU	Part number
A-Pan BGS 10 E	Panasonic DMW-BGS 10 E	900	3.7	4	5044583
A-Pan CGA S 005	Panasonic CGA-S 005	1150	3.7	4	50227837/05
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 4L, 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
A-Pan DMW-BCL7E	Panasonic DMW-BCL-7E	600	3.7	4	1400-0049
A-Pan DMW-BCNJ0E	Panasonic DMW-BCN-10E	800	3.7	4	1400-0052

## 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-FW 500 H	Sony NP-FW 500 H	1500	7.4	4	5044503
A-Son NP-FV 70	Sony NP-FV 70	1600	7.4	4	1400-0007
A-Son NP-FW 50	Sony NP-FW 50	900	7.4	4	1400-0008
A-Son NP-F970	Sony NP-F970	6800	7.4	4	1400-0078
A-Son NP-FZ-100	Sony NP-FZ-100	2000	7.4	4	1400-0079
A-Son NP-B6 1	Sony NP-B6 1	900	3.7	4	5044293

# BATTERIES

## Original

				
Micro AAA	Mignon AA	Baby C	Mono D	9 V E-Block
Alkaline	Alkaline	Alkaline	Alkaline	Alkaline
LR03	LR6	LR14	LR20	6LR61
1.5	1.5	1.5	1.5	9
Blister	Blister	Blister	Blister	Blister
4	4	2	2	1
10	20	10	10	10
5015553	5015563	1513-0000	1514-0000	1515-0000
Shrink	Shrink	Shrink	Shrink	Shrink
8	8	4	4	4
10	10	5	5	10
5015360	5015280	5015571	5015591	5015591
Box	Box			
20	20			
10	10			
5015538	5015568			

## X-Power

					
Mini AAAAA	Micro AAA	Mignon AA	Baby C	Mono D	9 V E-Block
Alkaline	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline
LR08	LR03	LR6	LR14	LR20	6LR61
1.5	1.5	1.5	1.5	1.5	9
Blister	Blister	Blister	Blister	Blister	Blister
2	2	2	2	2	1
10	10	20	10	10	10
1510-0005	5015603/5015653	5015613/5015663	5015623	5015633	5015643
Shrink	Shrink	Shrink	Bulk	Bulk	Bulk
2   3   4	2   3   4	2   3   4	1	1	10
10	10	10	20	20	10
5015671	5015671	5015671	5015691	5015701	5015711
1521-0002	1522-0002	1522-0002	5015691	5015701	5015711
1521-0007	1521-0007	5015691			

## Extreme

		
Micro AAA	Mignon AA	9 V E-Block
Lithium	Lithium	Lithium
FR03	FR6	6FR61
1.5	1.5	9
Blister	Blister	Blister
4	2   4   8	1
10	10   10   8	10
5021013	5021003 / 1512-0002	5021023
	1512-0012	
Bulk	Bulk	
50	50	
50	50	
1502-0001		

## Battery boxes

				
Battery Box 4	Battery Box 8 Plus	Battery Box 35	Battery Box 48	Battery Box 48 +
AAA   AA	AAA   AA   CR123A   CR2	AAA   AA   C   D   E	AAA   AA   E	AAA   AA   E
4	8	35	48	48
55 x 22 x 67	160 x 22 x 55	138 x 65 x 128	173 x 63 x 138	173 x 63 x 138
20	15	6	24	24
		1.4x AAA, 1.2x AA, 4x C, 4x D, 1x E	Schrauben & Dübel zur Wandmontage	Schrauben & Dübel über zur Wandmontage, Tester
Page 36				
4000740	4000033	1520-0004	1900-0041	1900-0041-1

# BATTERIES

## Industrial

<b>Product</b>	Micro AAA	Mignon AA	Baby C	Mono D	9 V E-Block
<b>Electrochemical system</b>	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline
<b>Alternative name</b>	LR03	LR6	LR14	LR20	4LR61
<b>Voltage (V)</b>	1.5	1.5	1.5	1.5	9
<b>Packaging type</b>	Bulk	Bulk	Bulk	Bulk	Bulk
<b>Included batteries</b>	10	10	10	10	10
<b>PU</b>	10	10	10	10	10
<b>Part number</b>	1501-0009	1502-0006	1503-0000	1504-0000	1505-0001



## Industrial

<b>Product</b>	Micro AAA	Mignon AA	9 V E-Block
<b>Electrochemical system</b>	Lithium	Lithium	Lithium
<b>Alternative name</b>	FR03	FR6	4FR61
<b>Voltage (V)</b>	1.5	1.5	9
<b>Packaging type</b>	Bulk	Bulk	Bulk
<b>Included batteries</b>	10	10	5
<b>PU</b>	10	10	10
<b>Part number</b>	1501-0010	1502-0005	1505-0002



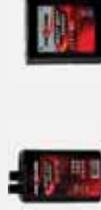
## Smoke Alarm

<b>Product</b>	9 V E-Block	9 V E-Block
<b>Electrochemical system</b>	Lithium	Alkaline
<b>Alternative name</b>	6FR61	6LR61
<b>Voltage (V)</b>	9	9
<b>Packaging type</b>	Bliester	Bliester
<b>Included batteries</b>	1	2
<b>PU</b>	16	10
<b>Part number</b>	5021023-01	1515-0006



## Zinc Chloride

<b>Product</b>	Heavy Duty	Heavy Duty
<b>Electrochemical system</b>	Zinc-Air	Zinc-Air
<b>Alternative name</b>	4R25	4R25
<b>Voltage (V)</b>	6	6
<b>Packaging type</b>	Bulk	Bulk
<b>Included batteries</b>	1	15
<b>PU</b>	1	10
<b>Part number</b>	1500-0003	5013091



# HEARING AID BATTERIES

<b>Product</b>	10	312	13	675
<b>Electrochemical system</b>	Zinc Air	Zinc Air	Zinc Air	Zinc Air
<b>Alternative name</b>	PR70   AZA10	PR61   AZA312	PR48   AZA13	PR64   AZA675
<b>Voltage (V)</b>	1.5	1.45	1.45	1.45
<b>Packaging type</b>	Bliester	Bliester	Bliester	Bliester
<b>PU</b>	10	10	10	10
<b>Part number</b>	5013223	5013233	5013243	5013253



## Tester

<b>Product</b>	Energy Check LCD	Battery Tester	Power Check	Power Check 12/24 V	Coin Cell Tester
<b>Testable cells</b>	Alkaline, NiMH round cells & 9 V E-Block, button cells	Alkaline, NiMH round cells & 9 V E-Block, button cells	12 V car batteries	12 V & 24 V car batteries	Alkaline & Lithium button cells
<b>Display</b>	Residual capacity in 10% increments, residual voltage in volts	Remaining capacity analogue	State of charge, ready to start, load test, defect detection	Output voltage accuracy to 0.1 V via LED display	Voltage via 5 LEDs
<b>Dimensions (mm)</b>	195 x 100 x 34	61 x 62 x 29	120 x 46 x 25	70 x 32 x 32	55 x 45 x 13.5
<b>Weight (g)</b>	257	36	92	19	17
<b>PU</b>	4	24	16	10	10
<b>Details</b>	Page 33	Page 34	Page 34	Page 35	Page 35
<b>Part number</b>	4000392	4000001	4000002	1900-0019	1900-0035



# BUTTON CELLS

<b>Product</b>	LR41	LR43	LR44	LR54	LRI	4LR44
<b>Electrochemical system</b>	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline
<b>Alternative name</b>	LR736   AG3	LR142   AG12	LR154   AG13	LR130   AG10	AMS   MN9100   E90	A544   L1325
<b>Voltage (V)</b>	1.5	1.5	1.5	1.5	1.5	6
<b>PU</b>	10	10	10	10	10	10
<b>Part number</b>	5015332	5015293	5015303	5015313	5015463	1510-0009

<b>Product</b>	A10	A11	A23	A27	A29	CRL025
<b>Electrochemical system</b>	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline	Lithium
<b>Alternative name</b>	LR10   MN10   LL022	LR11   MN11   LL016	LR23   MN21   LL028	LR27   MN27   L828	LR29   MN29   L822	
<b>Voltage (V)</b>	9	6	12	12	9	3
<b>PU</b>	10	10	10	10	10	10
<b>Part number</b>	1510-0006	1510-0007	5015182 (1x) 1510-0024 (2x)	1516-0001	1510-0008	1516-0005

<b>Product</b>	CRL216	CRL220	CRL225	CRL616	CRL620	CRL632
<b>Electrochemical system</b>	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
<b>Alternative name</b>						
<b>Voltage (V)</b>	3	3	3	3	3	3
<b>PU</b>	10	10	10	10	10	10
<b>Part number</b>	1516-0007	5020062	1516-0008	5020132	5020072	1516-0004

<b>Product</b>	CR2016	CR2025	CR2032	CR2330	CR2354	CR2430
<b>Electrochemical system</b>	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
<b>Alternative name</b>						
<b>Voltage (V)</b>	3	3	3	3	3	3
<b>PU</b>	10	10	10	10	10	10
<b>Part number</b>	5020062	5020142	5020122	1516-0009	1516-0012	5020092

<b>Product</b>	CR2450	CR2477	CR3032	CR123A	CR2	2CR5
<b>Electrochemical system</b>	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
<b>Alternative name</b>				CR17335	CR17355	
<b>Voltage (V)</b>	3	3	3	3	3	6
<b>PU</b>	10	10	10	50   12   12	50   12	12
<b>Part number</b>	5020112	1516-0010	1516-0013	5020011 (6x) 5020012 (1x) 1510-0023 (2x)	5020021 (6x) 5020022 (1x)	5020032

<b>Product</b>	CRI13N	SR44	SR66
<b>Electrochemical system</b>	Lithium	Silver oxide	Silver oxide
<b>Alternative name</b>	CRI1108   12L76	SRI154   1357	SR626   1377
<b>Voltage (V)</b>	3	1.55	1.55
<b>PU</b>	10	10	10
<b>Part number</b>	1516-0097	1516-0011	1516-0019

# CHARGERS

## Professional

					
<b>Product</b>	Powerline 4,2 Pro	Powerline 4 Light	Powerline 5 Pro	Powerline 8	Powerline Vario X
<b>Battery types</b>	NIMH	NIMH	NIMH	NIMH	NIMH / Li-Ion / LiPo
<b>Input voltage</b>	100-240 V AC	100-240 V AC	100-240 V AC / 1.2 V DC	100-240 V AC	5 V DC (USB)
<b>Charge current in mA</b>					
<i>Micro AAA</i>	400, 600, 800 (1-4)	450 (1-4)*	400, 600, 800 (1-4)	500 (1-8)	1000 (2)
<i>Mignon AA</i>	400, 600, 800 (1-4) 1500, 1800 (1-2)	450 (1-4)*	400, 600, 800 (1-4) 1500, 1800 (1-2)	500 (1-8)	1000 (2)
<i>Baby C</i>					
<i>Mono D</i>					
<i>9 VE-Block</i>			15		
<i>Lithium batteries</i>					
<i>USB</i>	1000 (1)	1000 (1)*	1000 (1)	1000 (1)	500 (2), 600 (1)
<b>Charging time for Mignon AA 1000 mAh (h)</b>	0,6 - 3	2,6	0,6 - 3	2,4	1,2 / 1,5 battery packs
<b>-4U</b>	•	•	•	•	•
<b>Temperature control</b>	•		•		
<b>Safety timer</b>	•	•	•	•	•
<b>CCC / constant current constant voltage</b>					•
<b>LCD display</b>	•	•	•	•	•
<b>Individual slot monitoring</b>	•	•	•	•	•
<b>Overload protection</b>	•	•	•	•	•
<b>Discharge function</b>	•		• with round cells	•	
<b>Refresh function</b>	•		• with round cells		
<b>Battery defect detection</b>	•	•	•	•	•
<b>Quick capacity test</b>					•
<b>Dimensions (mm)</b>	130 x 80 x 31	105 x 65 x 27	170 x 142 x 49	120 x 139 x 31	111,5 x 55 x 22
<b>Weight (g)</b>	260	190	650	360	89
<b>PU</b>	4	4	4	4	4
<b>Included accessories</b>	AC power supply	AC power supply	AC power supply, Car adapter	AC power supply	Micro USB cable
<b>Details</b>	Page 48	Page 50	Page 50	Page 51	Page 52
<b>Part number</b>	1001-0079	1001-0011	1001-0018	1001-0006	1001-0085

			
<b>Product</b>	Powerline 2	Energy 8 Plus	Energy 16 Plus
<b>Battery types</b>	NIMH	NIMH	NIMH
<b>Input voltage</b>	100-240 V AC	100-240 V AC	100-240 V AC
<b>Charge current in mA</b>			
<i>Micro AAA</i>		400 (1-6)	400 (1-12)
<i>Mignon AA</i>		1000 (1-6)	1000 (1-12)
<i>Baby C</i>		1000 (1-4)	1000 (1-6)
<i>Mono D</i>			
<i>9 VE-Block</i>	70 (1-2)	60 (1-2)	60 (1-2)
<i>Lithium batteries</i>			
<i>USB</i>			1000 (1-2)
<b>Charging time for Mignon AA 1000 mAh (h)</b>	1,7 (9 / 100 mAh)	1,2	1,2
<b>-4U</b>	•	•	•
<b>Temperature control</b>		•	
<b>Safety timer</b>		•	•
<b>CCC / constant current constant voltage</b>			
<b>LCD display</b>			
<b>Individual slot monitoring</b>	•	•	•
<b>Overload protection</b>	•	•	•
<b>Discharge function</b>			
<b>Refresh function</b>		• (automatic)	• (automatic)
<b>Battery defect detection</b>		•	•
<b>Quick capacity test</b>		•	•
<b>Dimensions (mm)</b>	124 x 70 x 90	191 x 172 x 57	244 x 262 x 60
<b>Weight (g)</b>	134	605	1264
<b>PU</b>	10	4	4
<b>Included accessories</b>			
<b>Details</b>	Page 52	Page 53	Page 53
<b>Part number</b>	5107043	5207442	1001-0004

\* Either round cell charging or charging via USB

# CHARGERS

## Comfort



Product	Comfort Smart	Comfort Mini	Comfort Multi	Comfort Plus
<b>Battery types</b>	NiMH	NiMH	NiMH	NiMH
<b>Input voltage</b>	5 V DC (USB)	5 V DC (USB)	5 V DC (USB)	100-240 V AC
<b>Charge current in mA</b>				
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				
<b>Charging time for Mignon AA 1000 mAh (h)</b>	1.5	1.5	1.5	2.2
-AU	•	•	• (with round cells)	•
<b>Perfect 7 Charging Technology</b>	•	•	• (with round cells)	•
<b>Safety timer</b>	•	•	•	•
CCCV (constant current constant voltage)				
LCD display				•
Individual slot monitoring	•	•	•	•
Overload protection	•	•	•	•
Discharge function				•
<b>Battery defect detection</b>	•	•	•	•
<b>Quick capacity test</b>	•	•	•	•
<b>Dimensions (mm)</b>	72 x 97 x 29	42 x 97 x 29	152 x 149,5 x 47	72,3 x 124,6 x 67,5
<b>Weight (g)</b>	110	75	330	200
<b>PU</b>	60	60	20	30
<b>Included accessories</b>	USB to Micro/USB charging cable 100 cm	USB to Micro/USB charging cable 100 cm	USB to Micro/USB charging cable 100 cm	
<b>Details</b>	Page 42	Page 44	Page 45	Page 45
<b>Part number</b>	1001-0092 1001-0092-01	1001-0091 1001-0091-01	1001-0093 1001-0094-01	1001-0094 1001-0094-01

## Every Day



Product	Photocam IV
<b>Battery types</b>	NiMH
<b>Input voltage</b>	100-240 V AC
<b>Charge current in mA</b>	
Micro AAA	500 (2/4)
Mignon AA	500 (2/4)
Baby C	
Mono D	
9 V E-Block	
Lithium	
<b>Charging time for Mignon AA 1000 mAh (h)</b>	2.4
-AU	•
<b>Perfect 7 Charging Technology</b>	
<b>Safety timer</b>	•
CCCV (constant current constant voltage)	
LCD display	•
Individual slot monitoring	
Overload protection	•
Discharge function	
<b>Battery defect detection</b>	•
<b>Quick capacity test</b>	
<b>Dimensions (mm)</b>	120 x 68 x 72
<b>Weight (g)</b>	250
<b>PU</b>	4
<b>Included accessories</b>	
<b>Details</b>	
<b>Part number</b>	5507263 / 531 2963

# CHARGERS

## Specialists



<b>Product</b>	NiZn Charger	Lithium 2	ACS 48	ACS 110
<b>Battery types</b>	NiZn	NiMH Li-Ion	NiMH	NiMH
<b>Input voltage</b>	100-240 V AC	5 VDC (USB)	100-240 V AC	100-240 V AC
<b>Charge current in mA</b>				
<i>Micro AAA</i>	500 (L-4) NiZn	500 (L-2)	150 - 350 (4-8)	800 (L-10)
<i>Mignon AA</i>	500 (L-4) NiZn	500 (L-2)		
<i>Lithium batteries</i>		1000 (L-2)		
<b>Charging time for Mignon AA 1000 mAh (h)</b>	3.5	2.4	3.5 - 8	1.5
<b>-dU</b>				
<b>Temperature control</b>				
<b>Safety timer</b>				
<b>CCCV (constant current constant voltage)</b>				
<b>Individual slot monitoring</b>				
<b>Overload protection</b>				
<b>Discharge function</b>				
<b>Battery defect detection</b>				
<b>Dimensions (mm)</b>	118 x 72 x 72	125 x 73 x 33	44 x 74 x 76	118 x 62 x 88
<b>Weight (g)</b>	110	105	141	276
<b>PU</b>	10	4	10	12
<b>Included accessories</b>		Micro USB cable		
<b>Details</b>	Page 56	Page 56	Page 57	Page 57
<b>Part number</b>	1001-0013	1001-0050	1001-0024	1001-0023

## Qi chargers



<b>Product</b>	Wiline 1.0	Wiline Car Charger
<b>Compatible with</b>	Qi-enabled receivers, like smartphones and more	Qi-enabled smartphones up to a size of 55 x 105 mm
<b>Connections Input</b>	USB Type C	Micro USB
<b>Input voltage</b>	5 VDC   2 A 9 VDC   1.67 A	5 VDC   max. 2 A
<b>Output voltage</b>	5 VDC   1.0 A 9 VDC   1.2 A max. 10 W	5 VDC   1.0 A max. 5 W
<b>Multisafe technology</b>		
<b>Loading efficiency</b>	> 70 %	> 70 %
<b>Dimensions (mm)</b>	ø 100 x 11	272 x 174 x 67
<b>Weight (g)</b>	124	376
<b>PU</b>	48	24
<b>Included accessories</b>	USB to USB Type C charging cable 100 cm	USB to Micro USB charging cable 100 cm
<b>Details</b>	Page 65	Page 65
<b>Part number</b>	1001-0088	1001-0043

# CHARGERS

## USB chargers



Product	Home Charger 254 PD	Home Charger 247 PD	USB Charger 112	USB Charger 224	Home Charger 1300
<b>Compatible with</b>	Compatible with devices that are charged or operated via USB	Compatible with devices that are charged or operated via USB	Compatible with devices that are charged or operated via USB	Compatible with devices that are charged or operated via USB	Compatible with devices that are charged or operated via USB
<b>Connections</b>	USB Type C	USB Type C	USB	2x USB	USB OC 3.0
<b>Input voltage</b>	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC
<b>Output voltage</b>					
<b>USB</b>	5 V DC   2,4 A	5 V DC   2,4 A	5 V DC   1,2 A	5 V DC   2,4 A	5 V DC   2,4 A 5 V DC   3,0 A 9 V DC   2,0 A 12 V DC   1,5 A max. 18 W
<b>USB Type C</b>	5 V DC   3,0 A 9 V DC   3,0 A 12 V DC   3,0 A 15 V DC   3,0 A 20 V DC   3,0 A max. 60 W	5 V DC   3,0 A 9 V DC   3,0 A 12 V DC   2,0 A 15 V DC   1,5 A max. 18 W			
<b>Multisafe Technology</b>	•	•	•	•	•
<b>Smart IC</b>	•	•	•	•	•
<b>Quick Charge Compatible</b>	•	•	•	•	•
<b>Power Delivery</b>	•	•			
<b>Dimensions (mm)</b>	107 x 70 x 30	102 x 65 x 29	64 x 14 x 35	81 x 36 x 24	83 x 45 x 22
<b>Weight (g)</b>	175	140	24	40	56
<b>PU</b>	18	18	8	4	4
<b>Details</b>	Page 60	Page 62	Page 63	Page 63	Page 64
<b>Part number</b>	1001-0096	1001-0095	1001-0030-1	1001-0066	1001-0099

Product	Home Charger HC218PD	Home Charger HC430
<b>Compatible with</b>	Compatible with devices that are charged or operated via USB	Compatible with devices that are charged or operated via USB
<b>Connections</b>	USB Type C	4x USB
<b>Input voltage</b>	100-240 V AC	100-240 V AC
<b>Output voltage</b>		
<b>USB</b>	5 V DC   3,0 A 9 V DC   2,0 A 12 V DC   1,5 A max. 18 W	USB 1 +2: 5 V DC   3,0 A USB 1 +2: 5 V DC   3,0 A max. 30 W
<b>USB Type C</b>	5 V DC   3,0 A 9 V DC   2,0 A 12 V DC   1,5 A max. 18 W	
<b>Multisafe Technology</b>	•	•
<b>Smart IC</b>	•	•
<b>Quick Charge Compatible</b>	•	
<b>Power Delivery</b>	•	
<b>Dimensions (mm)</b>	80 x 43 x 24,5	94 x 51 x 24,3
<b>Weight (g)</b>	52	84
<b>PU</b>	80	52
<b>Details</b>	Page 64	Page 64
<b>Part number</b>	1001-0109 1001-0111	1001-0107 1001-0113

# CHARGERS

## In-Car USB chargers



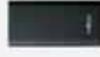
Product	In-Car Charger CC10S	In-Car Charger CC212	In-Car Charger CC230PPD	In-Car Charger 240C	In-Car Charger 231+
<b>Connections</b>	USB	2x USB	USB USB Type-C	USB USB Type-C	2x USB 4x USB
<b>Input voltage</b>	12-24 V DC	12-24 V DC	12-24 V DC	12-24 V DC	12-24 V DC
<b>Output voltage</b>					
<b>USB</b>	5 V DC 1.0 A max. 5 W	1: 5 V DC 1.24 A 2: 5 V DC 1.24 A max. 12 W	5 V DC 1.0 A 5 V DC 1.0 A 5 V DC 1.5 A 20 V DC 1.5 A	5 V DC 1.0 A 5 V DC 1.0 A 5 V DC 1.5 A 20 V DC 1.5 A	5 V DC 1.6 A 5 V DC 1.3 A
<b>USB Type-C</b>			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	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	
<b>Multisafe technology</b>	•	•	•	•	•
<b>Smart IC</b>	•	•	•	•	•
<b>Qualcomm Quick Charge 3.0</b>		•			
<b>Power Delivery</b>		•			
<b>Dimensions (mm)</b>	43,5 x 24 x 24	43,5 x 24 x 24	43,5 x 24 x 24	73 x 28 x 21	46,5 x 28 x 21
<b>Weight (g)</b>	13	13	14	22	45
<b>PU</b>	80	80	80	4	4
<b>Included accessories</b>					2 in 1 USB Type-C / S Micro USB cable
<b>Details</b>	Page 68	Page 69	Page 68	Page 69	Page 68
<b>Part number</b>	1000-0031	1000-0030	1000-0029	1000-0021	1000-0022

## Car chargers



Product	ALCT 6-24/10	ALCT 6-24/4	ALCT 6-24/2	ALCS 2-12/0.4	ALCS 2-24A
<b>Input voltage</b>	230 V AC	230 V AC	230 V AC	100 - 240 V AC	230 V AC
<b>Battery voltage</b>	Autom. 6 / 12 / 24	Autom. 6 / 12 / 24	Autom. 6 / 12 / 24	2 / 6 / 12	Autom. 2 / 6 / 12 / 24
<b>Charge current (mA)</b>	1000 / 10000 / 5000	1000 / 4000 / 2000	500 / 2000 / 1000	400	900 / 700 / 600 / 300
<b>Charging characteristic</b>					
<b>For batteries from (Ah)</b>	4,5	4,5	1,2	1,2	1,3
<b>Suitable battery types</b>	Lead acid / Lead Gel AGM				
<b>Charge current controls</b>	•	•	•	•	•
<b>Overload protection</b>	•	•	•	•	•
<b>Refresh mode</b>	•	•	•	•	•
<b>Low temperature mode</b>	•	•	•	•	•
<b>Dimensions (mm)</b>	272 x 194 x 142	210 x 63 x 46	130 x 43 x 50	69 x 42 x 70	106 x 68 x 68
<b>Weight (g)</b>	1420	560	395	135	230
<b>PU</b>	4	10	4	4	10
<b>Details</b>	Page 72	Page 72	Page 72	Page 73	Page 73
<b>Part number</b>	1001-0014	1001-0017	1001-0016	1001-0015	9164016

# POWERBANKS



Product	Powerbank 24.0 PD	Powerbank 20.0 PD	Powerbank 15.0 PD	Powerbank 10.0 PD	Powerbank 20.8
<b>Connections Input</b>	Micro USB USB Type C	Micro USB			
<b>Connections Output</b>	2x USB DC 3.0 USB Type C	2x USB			
<b>Cell type</b>	LiPo	LiPo	LiPo	LiPo	LiPo
<b>Capacity</b>	24,000 mAh   88.8 Wh	20,000 mAh   74 Wh	15,000 mAh   55.5 Wh	10,000 mAh   37 Wh	20,800 mAh   74 Wh
<b>Input voltage</b>					
Micro USB	5 V DC   2.0 A	5 V DC   2.0 A			
USB Type C	5 V DC   2.0 A 9 V DC   2.0 A	5 V DC   2.0 A 9 V DC   2.0 A	5 V DC   2.0 A 9 V DC   2.0 A	5 V DC   2.0 A 9 V DC   2.0 A	
<b>Output Voltage</b>					
USB	5 V DC   3.0 A	5 V DC   max. 2.0 A			
USB DC 3.0	5 V DC   3.0 A 9 V DC   2.0 A	5 V DC   3.0 A 9 V DC   2.0 A	5 V DC   3.0 A 9 V DC   2.0 A	5 V DC   3.0 A 9 V DC   2.0 A	
USB Type C	12 V DC   1.5 A				
Wireless					
<b>Charging time</b>					
Micro USB	12 h	11 h	8 h	6 h	9 h
USB Type C	7 h	5 V: 11 h   9 V: 7.5 h	5 V: 8 h   9 V: 5 h	5 V: 6 h   9 V: 3.5 h	
<b>Maximum Smartphone charges</b>	11	8	6	4	8
<b>Multi Safe Technology</b>	•	•	•	•	•
<b>Quick Charge Compatible</b>	•	•	•	•	•
<b>Power Delivery</b>	• 18 W	• 18 W	• 18 W	• 18 W	
<b>TUV certified</b>	•	•	•	•	•
<b>LED light</b>					
<b>Dimensions (mm)</b>	165 x 78 x 29	137 x 67 x 25	137 x 67 x 19	13 x 67 x 14	160 x 80 x 21
<b>Weight (g)</b>	696	406	337	250	428
<b>P/U</b>	4	4	4	4	4
<b>Included accessories</b>	1x USB to Micro USB & 1x USB Type C to USB Type C charging cable	1x USB to Micro USB & 1x USB Type C to USB Type C charging cable	1x USB to Micro USB & 1x USB Type C to USB Type C charging cable	1x USB to Micro USB & 1x USB Type C to USB Type C charging cable	USB to Micro USB charging cable
<b>Details</b>	Page 80	Page 81	Page 78	Page 81	Page 84
<b>Part number</b>	1700-0112	1700-0113	1700-0114	1700-0115	1700-0068



Product	Powerbank 10.8 Mini	Powerbank 8.0 Wireless	Powerbank Slim	Powerbank 5.4	Powerbank 10.8
<b>Connections Input</b>	Micro USB	Micro USB USB Type C	Micro USB	Micro USB	Micro USB
<b>Connections Output</b>	2x USB	2x USB Wireless Qi ready	USB	2x USB	2x USB
<b>Cell type</b>	LiPo	LiPo	LiPo	LiPo	LiPo
<b>Capacity</b>	10,000   37 Wh	8,000 mAh   29.6 Wh	4,000 mAh   14.8 Wh	5,000 mAh   18.5 Wh	10,000 mAh   37 Wh
<b>Input voltage</b>					
Micro USB	5 V DC   2.0 A	5 V DC   2.0 A	5 V DC   1.0 A	5 V DC   2.0 A	5 V DC   2.0 A
USB Type C		5 V DC   2.0 A			
<b>Output Voltage</b>					
USB	5 V DC   max. 2.4 A	5 V DC   max. 2.1 A	5 V DC   1.0 A	5 V DC   max. 2.4 A	5 V DC   max. 2.4 A
USB DC 3.0	5 V DC   max. 2.1 A				
USB Type C		5 V DC   max. 1.0 A			
Wireless					
<b>Charging time</b>					
Micro USB	6 h	4.5 h	5 h	3 h	6 h
USB Type C					
<b>Maximum Smartphone charges</b>	4	3	2	2	4
<b>Multi Safe Technology</b>	•	•	•	•	•
<b>Quick Charge Compatible</b>	•	•	•	•	•
<b>Power Delivery</b>					
<b>TUV certified</b>	•	•	•	•	•
<b>LED light</b>					
<b>Dimensions (mm)</b>	98.5 x 64 x 24	198 x 86 x 24	110 x 67 x 10	120 x 67 x 12	123 x 71 x 19
<b>Weight (g)</b>	208	181	127	135	226
<b>P/U</b>	4	4	12	4	4
<b>Included accessories</b>	USB to Micro USB charging cable	USB to Micro USB charging cable	USB to Micro USB charging cable	USB to Micro USB charging cable	USB to Micro USB charging cable
<b>Details</b>	Page 82	Page 84	Page 85	Page 85	Page 84
<b>Part number</b>	1700-0091	1700-0109	1700-0110 (silver) 1700-0111 (rose)	1700-0066	1700-0067 (black) 1700-0067-1 (white)

# SMARTPHONE ACCESSORIES

## USB cable



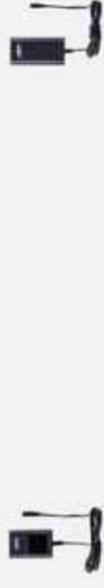
Product	Micro USB cable	Lightning cable	Type C cable	2in1 Micro S Lightning	2in1 Micro S Type C	Type C to Lightning	Type C to Type C
<b>Cable length (cm)</b>	120 200	120 200	120 200	120	120	120 200	120 200
<b>Connector type</b>	Micro USB	Apple Lightning	USB Type C	Apple Lightning Micro USB	USB Type C Micro USB	Apple Lightning USB Type C	USB Type C USB Type C
<b>Material</b>	Aluminium housing with strain relief						
<b>Cable head</b>	Highly flexible TPE Plastic						
<b>Charge &amp; synchronize</b>	•	•	•	•	•	•	•
<b>Quick chargeable</b>	•	•	•	•	•	•	•
<b>Made for iPhone</b>	•	•	•	•	•	•	•
<b>Weight (g)</b>	23 39	23 39	34 56	27	26	36 57	34 54
<b>PV</b>	8	8	8	8	8	8	8
<b>Details</b>	Page 90	Page 90	Page 91	Page 91	Page 90	Page 90	Page 90
<b>Part number</b>	120 cm: 1700-0076 200 cm: 1700-0077	120 cm: 1700-0078 200 cm: 1700-0079	120 cm: 1700-0080 200 cm: 1700-0081	1700-0082	1700-0083	120 cm: 1700-0106 200 cm: 1700-0107	120 cm: 1700-0121 200 cm: 1700-0122

## Smartphone holder



<b>Product</b>	Magnetic holder for windshield	Magnetic holder for ventilation grilles	USB car charger with cradle
<b>Input voltage</b>			12-24 V DC   1.5 A
<b>Output voltage</b>			5 V DC   2.4 A
<b>Dimensions (mm)</b>	50 x 40 x 38	55 x 40 x 38	168 x 85 x 35
<b>Weight (g)</b>	85	59	166
<b>PV</b>	4	10	4
<b>Included accessories</b>	2 ultra thin metal plates	2 ultra thin metal plates	USB to Micro USB charging cable
<b>Details</b>	Page 95	Page 94	Page 94
<b>Part number</b>	1700-0070	1700-0069	1000-0011

# UNIVERSAL POWER SUPPLIES



Product	APS 300	APS 600	APS 1000	APS 1500	APS 2250 L	APS 2250 H
<b>Input voltage</b>	100-240 V AC					
<b>Secondary connector set</b>	•	•	•	•	•	•
<b>Max. Output current (mA)</b>	600	600	1000	1500	1500	1500
<b>3.0 V DC</b>	600	600	1000	1500	1500	1500
<b>4.5 V DC</b>	600	600	1000	1500	1500	1500
<b>5.0 V DC</b>	600	600	1000	1500	1500	1500
<b>6.0 V DC</b>	600	600	1000	1500	1500	1500
<b>7.5 V DC</b>	450	600	1000	1500	1500	1500
<b>9.0 V DC</b>	400	600	1000	1500	1500	1500
<b>12.0 V DC</b>	300	600	1000	1500	1500	1500
<b>13.5 V DC</b>					1800	1800
<b>15.0 V DC</b>					1800	1800
<b>18.0 V DC</b>					1800	1800
<b>19.0 V DC</b>					1400	1400
<b>20.0 V DC</b>					1350	1350
<b>22.0 V DC</b>					1200	1200
<b>24.0 V DC</b>					1000	1000
<b>Maximum output power (W)</b>	3.6	7.2	1.2	1.8	27	27
<b>Stabilised</b>	•	•	•	•	•	•
<b>Reverse polarity coupling</b>	•	•	•	•	•	•
<b>Dimensions (mm)</b>	42 x 68 x 70	42 x 68 x 70	48 x 74 x 70	55 x 80 x 70	53 x 100 x 32	53 x 100 x 32
<b>Weight (g)</b>	102	125	144	161	291	291
<b>PV</b>	4	4	4	4	4	4
<b>Included accessories</b>	Additional connector set					
<b>Details</b>	Page 98	Page 98	Page 98	Page 98	Page 99	Page 99
<b>Part number</b>	1201-0021	1201-0022	1201-0023	1201-0024	1201-0025	1201-0026

# TRAVEL PLUGS



Product	World to EU	World to EU + USB	All in One 3	All in One 2	EU to UK
<b>Connector type</b>					
<i>EU</i>	•	•	•	•	•
<i>UK</i>			•	•	•
<i>US</i>		•	•	•	
<i>AU</i>			•	•	
<i>CH</i>			•		
<i>IT</i>			•		
<b>For trips to</b>	Germany, France, Spain, Norway, Sweden, Finland, etc.	Germany, France, Spain, Norway, Sweden, Finland, etc.	Germany, Great Britain, USA, Australia, etc.	Germany, Great Britain, USA, Australia, etc.	Great Britain, Hong Kong, Malaysia, Singapore, etc.
<b>USB Input</b>	•	•	•	•	•
<b>Suitable for protection class I <sup>*1</sup></b>	•	•	•	•	•
<b>Suitable for protection class II <sup>*2</sup></b>	•	•	•	•	•
<b>Max. voltage</b>	250 V	250 V	250 V	250 V	250 V
<b>Max. current</b>	16 A	16 A	6,3 A	2,5 A	10 A
<b>Usable device connectors</b>					
<i>EU</i>	•	•	•	•	•
<i>UK</i>			•	•	
<i>US</i>	•	•	•	•	
<i>AU</i>	•	•	•	•	
<i>CH</i>	•	•	•		
<i>IT</i>	•	•	•		
<b>Dimensions (mm)</b>	63 x 63 x 59,5	63 x 63 x 59,5	57 x 73 x 65	54 x 50 x 53	64 x 56 x 63
<b>Weight (g)</b>	65	80	208	100	88
<b>PU</b>	24	24	4	4	6
<b>Details</b>	Page 102	Page 102	Page 103	Page 103	Page 102
<b>Part number</b>	1250-0011	1250-0012	1809-0000	1250-0006	1250-0031

Product	EU to US	EU to AU	EU to CH	EU to IT
<b>Connector type</b>				
<i>EU</i>	•	•	•	•
<i>US</i>	•			
<i>AU</i>		•		
<i>CH</i>			•	
<i>IT</i>				•
<b>For trips to</b>	USA, Canada, Mexico, Cuba, Thailand, etc.	Australia, Argentina, China, Nepal, New Zealand, etc.	Switzerland, Liechtenstein, Maldives, etc.	Italy, Chile, etc.
<b>USB Input</b>	•	•	•	•
<b>Suitable for protection class I <sup>*1</sup></b>	•	•	•	•
<b>Suitable for protection class II <sup>*2</sup></b>	•	•	•	•
<b>Max. voltage</b>	125 V	250 V	250 V	250 V
<b>Max. current</b>	15 A	10 A	6,3 A	10 A
<b>Usable device connectors</b>				
<i>EU</i>	•	•	•	•
<i>UK</i>				
<i>US</i>	•			
<i>AU</i>		•		
<i>CH</i>			•	
<i>IT</i>				•
<b>Dimensions (mm)</b>	60 x 53 x 63	53 x 60 x 63	53 x 60 x 73	53 x 60 x 67
<b>Weight (g)</b>	51	48	52	46
<b>PU</b>	6	6	6	6
<b>Details</b>	Page 102	Page 103	Page 103	Page 103
<b>Part number</b>	1250-0032	1250-0033	1250-0034	1250-0035

\*1 Devices with protective contact (protective earth)  
\*2 Devices without protective contact

# FLASHLIGHTS

## Professional M-Series



Product	M100F	M200F	M250F	M350F	M900P
<b>Included batteries</b>	1x Mignon AA Alkaline	2x Mignon AA Alkaline	3x Micro AAA Alkaline	4x Micro AAA Alkaline	4x Mignon AA Alkaline
<b>Light sources</b>	3.0 W LED	5.0 W LED	5.0 W LED	5.0 W LED	10.0 W Cree LED
<b>Headlight range (m) according to ANSI FL1</b>	70	120	150	140	240
<b>Light duration (h)</b>	5	22	10	12	20
<b>Brightness (Lumen)</b>	115	240	260	320	930
<b>Brightness (Lux)</b>	1250	3000	5700	4600	14000
<b>Focusable</b>	•	•	•	•	•
<b>Tactical functions</b>	100 %   30 % Strobe   Dimming	100 %   30 % Strobe   Dimming	100 %   30 %   Morse Strobe   Dimming	100 %   30 %   Boost   Morse   Strobe   Dimming	100 %   30 %   Boost   Morse   Strobe   Dimming
<b>Dust &amp; water protection</b>	IP54	IP54	IP54	IP54	IP67
<b>Dimensions (mm)</b>	104 x ø 25	164 x ø 29	123 x ø 34	143 x ø 39	174 x ø 40,5
<b>Weight including batteries (g)</b>	92	174	157	241	187
<b>PU</b>	6	6	6	6	6
<b>Included accessories</b>	Hand strap Clip	Hand strap Clip	Hand strap Clip	Hand strap Clip	Hand strap
<b>Warranty</b>	3 years	3 years	3 years	3 years	3 years
<b>Details</b>	Page 110	Page 110	Page 110	Page 108	Page 111
<b>Part number</b>	1600-0170	1600-0173	1600-0171	1600-0172	1600-0162

## Home X-Series



Product	X10	X15	X20	X30
<b>Included batteries</b>	1x Mignon AA Alkaline	2x Micro AAA Alkaline	2x Mignon AA Alkaline	2x Baby C Alkaline
<b>Light sources</b>	0,36 W LED	5 mm LED	0,36 W LED	2,0 W LED
<b>Headlight range (m) according to ANSI FL1</b>	50	20	65	110
<b>Light duration (h)</b>	22	45	30	40
<b>Brightness (Lumen)</b>	25	15	25	40
<b>Brightness (Lux)</b>	820	45	900	3000
<b>Dust &amp; water protection</b>	IPX4	IPX4	IPX4	IPX4
<b>Dimensions (mm)</b>	103 x ø 25	134 x ø 13	152 x ø 25	200 x ø 44
<b>Weight including batteries (g)</b>	75	38	110	363
<b>PU</b>	6	6	6	6
<b>Included accessories</b>	Hand strap	Clip	Hand strap	Hand strap
<b>Warranty</b>	2 years	2 years	2 years	2 years
<b>Details</b>	Page 120	Page 120	Page 121	Page 121
<b>Part number</b>	1600-0153	1600-0169	1600-0154	1600-0155

# FLASHLIGHTS

## Outdoor T-Series



Product	T350FR	Multi 3in1	T50F	T60F	T120
<b>Included batteries</b>	3x Micro AAA Alkaline	1x Micro AAA Alkaline	1x Micro AAA Alkaline	1x Micro AAA Alkaline	2x Micro AAA Alkaline
<b>Battery cell type</b>	Li-Ion 3.7 V 1700 mAh (integrated)	3x white & red LED's	3 W LED	3 W LED	3 W LED
<b>Light sources</b>	5 W LED	10 W LED	3 W LED	3 W LED	3 W LED
<b>Headlight range (m) according to ANSI FL1</b>	110	184	75	60	75
<b>Light duration (h)</b>	5.5	11	2.5	45	4
<b>Brightness (Lumen)</b>	300	220	60	55	130
<b>Brightness (Lux)</b>	3000	4650	1250	800	1350
<b>Focusable</b>	•	•	•	•	•
<b>Lens technology</b>	•	•	•	•	•
<b>Dimmable</b>	•				
<b>Charging via USB</b>	•				
<b>Holding magnet</b>					•
<b>Energy label (see page 189)</b>					
<b>Lighting functions</b>	100 %   20 % Dimming	Flashlight Working light Signal light	100 %	100 %	100 %
<b>Storage temperature</b>	-20° to 60° C	-20° to 50° C	-20° to 50° C	-20° to 50° C	-20° to 50° C
<b>Operating temperature</b>	-20° to 25° C	-20° to 25° C	-20° to 25° C	-20° to 25° C	-20° to 25° C
<b>Dust &amp; water protection</b>	IP54	IP54	IP54	IPX3	IP54
<b>Dimensions (mm)</b>	94 x ø 27	125.5 x ø 33	91.5 x ø 21	82.5 x ø 15	115 x ø 16
<b>Weight inclusive batteries/rechargeable batteries (g)</b>	93	183	60	34	55
<b>PU</b>	6	6	6	6	6
<b>Included accessories</b>	Hand strap	Clip	Hand strap	Key ring	Clip
<b>Details</b>	Page 114	Page 116	Page 117	Page 117	Page 117
<b>Part number</b>	1600-0247	1600-0137	1600-0159	1600-0259	1600-0160



Product	T150	T200F	T300F	T400FR	T500F	T600FRB
<b>Included batteries</b>	2x Mignon AA Alkaline	3x Micro AAA Alkaline	2x Baby C Alkaline	18650 Li-Ion changeable (incl.)	3x Mono D Alkaline	3x Micro AAA Alkaline
<b>Battery cell type</b>	3 W LED	3 W LED	5 W LED	5 W LED	10 W LED	10 W LED
<b>Light sources</b>	150	174	110	175	170	165
<b>Headlight range (m) according to ANSI FL1</b>	10	13	7	9	43	27
<b>Light duration (h)</b>	150	200	320	400	710	620
<b>Brightness (Lumen)</b>	5000	7560	2500	7500	7000	6500
<b>Focusable</b>	•	•	•	•	•	•
<b>Lens technology</b>	•	•	•	•	•	•
<b>Dimmable</b>		•				
<b>Charging via USB</b>				•		
<b>Holding magnet</b>						
<b>Energy label (see page 189)</b>						
<b>Lighting functions</b>	100 %	100 %   30 % SOS   Strobe	100 %   40 %	100 %   30 % SOS   Strobe	100 %   40 %	100 %   25 %   110 % SOS   Strobe
<b>Storage temperature</b>	-10° to 50° C	-10° to 50° C	-10° to 50° C	-20° to 50° C	-10° to 50° C	-10° to 50° C
<b>Operating temperature</b>	-10° to 25° C	-10° to 25° C	-10° to 25° C	-20° to 25° C	-10° to 25° C	-10° to 25° C
<b>Dust &amp; water protection</b>	IP54	IP54	IP54	IPX4	IP54	IPX4
<b>Dimensions (mm)</b>	158 x ø 25	135 x ø 31	238 x ø 44	189 x ø 32	320 x ø 52	123 x ø 35
<b>Weight inclusive batteries/rechargeable batteries (g)</b>	100	147	434	188	923	142
<b>PU</b>	6	6	4	1	4	5
<b>Included accessories</b>	Hand strap	Hand strap	Hand strap	Hand strap, Micro USB charging cable	Hand strap	Clip
<b>Details</b>	Page 117	Page 118	Page 118	Page 119	Page 119	Page 119
<b>Part number</b>	1600-0145	1600-0138	1600-0202	1600-0150	1600-0203	1600-0288

# HEAD LIGHTS



Product	HD70B	HD150BS	HD200B	HD250RS	HD500R	HD120B
<b>Included batteries</b>	1x Mignon AA Alkaline	3x Micro AAA Alkaline	3x Micro AAA Alkaline	3x Micro AAA Alkaline	3x Micro AAA Alkaline	3x Micro AAA Alkaline
<b>Battery cell type</b>	3 W LED Additional LED	5 W LED 5 mm LED	3 W LED COB LED	Li-Po battery 3.7 V 1200 mAh 5 W Cree LED 4 W COB LED	18650 Li-Ion battery 3.7 V 2600 mAh (incl.) 1.0 W LED	1 W Cree LED
<b>Light sources</b>	80	75	50	51	160	14
<b>Headlight range (m) according to ANSI FL1</b>	36	30	17	9	19	15
<b>Light duration (h)</b>	65	190	185	250	550	125
<b>Brightness (Lumen)</b>	1600	1400	1200	2600	6500	52
<b>Adjustable head</b>	•	•	•	•	•	•
<b>Charging via USB</b>						
<b>Energy label (see page 189)</b>						
<b>Lighting functions</b>	100%   25% Close range LEDs	100%   30% Close range LEDs Sensor mode	100%   High Power 100%   3 W   100% COB 30% COB Sensor mode	100%   High Power 100%   3 W   100% COB 30% COB Sensor mode	100%   50% 25% Strobe	100%   30%
<b>Storage temperature</b>	-10 to 50 °C	-20 to 70 °C	-20 to 70 °C	-20 to 60 °C	-20 to 60 °C	-10 to 50 °C
<b>Operating temperature</b>	-10 to 25 °C	-10 to 25 °C	-10 to 25 °C	-20 to 25 °C	-20 to 25 °C	-10 to 25 °C
<b>Dust &amp; water protection</b>	IP44	IP54	IP44	IP54	IP64	IPX2
<b>Dimensions (mm)</b>	64 x 28 x 35	60 x 53 x 45	68 x 47 x 34	58 x 36.5 x 43.5	37 x 85 x 50	74 x 42 x 21
<b>Weight inclusive batteries/rechargeable batteries (g)</b>	66	94	102	80	131	86
<b>PU</b>	6	6	6	6	6	12
<b>Included accessories</b>	Headband	Headband	Headband	Headband Micro USB charging cable	Headband Micro USB charging cable	Headband
<b>Details</b>	Page 126	Page 124	Page 126	Page 126	Page 127	Page 127
<b>Part number</b>	1600-0260	1600-0199	1600-0198	1600-0224	1600-0325	1600-0357

# ACCESSORIES



Product	Universal holster	Lamp holder	Carrying strap	Battery pack	Universal Tripod
<b>Compatible with</b>	Flashlights with 150 x ø 34 mm	Flashlights with ø 25 - 34 mm	HS1000R, HSSR & HS20R	HS4500R Duo	Floodlight series
<b>Dimensions (mm)</b>	51 x 34 x 154	86 x 38 x 96	940 x 38	112 x 79.5 x 85	109.5 x 96 x 87.5
<b>Weight (g)</b>	41	100	41	650	3188
<b>PU</b>	10	20	6	16	1
<b>Details</b>	Page 121	Page 121	Page 133	Page 133	Page 141
<b>Part number</b>	1600-0017	1600-0080	1600-0022	1400-0080	1600-0315

# CAMPING & DECO



Product	CL200B	CL600B	2x Deco Light L Set
<b>Included batteries</b>	4x Mignon AA Alkaline (not included)	2x Micro D Alkaline (not included)	6x Micro AAA Alkaline
<b>Light sources</b>	3 W COB O-Ring LED	15 W COB O-Ring LED	
<b>Light duration (h)</b>	94	41	
<b>Brightness (Lumen)</b>	175	600	
<b>Brightness (Lux)</b>	135	500	
<b>Dimensions (mm)</b>	64 x 64 x 144	119 x 119 x 221	116 x 116 x 112
<b>Weight (g)</b>	300	800	242
<b>PU</b>	12	4	3
<b>Included accessories</b>			Remote control
<b>Details</b>	Page 148	Page 148	Page 149
<b>Part number</b>	1600-0286	1600-0287	1600-0301

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

874/2012

The following articles are legally marked with the energy label and energy efficiency class for LED lights:  
 1600-0150, 1600-0224, 1600-0223, 1600-0222, 1600-0358, 1600-0152, 1600-0055, 1600-0304, 1600-0274, 1600-0275, 1600-0276, 1600-0277, 1600-0278, 1600-0279, 1600-0280, 1600-0281, 1600-0282, 1600-0283, 1600-0284, 1600-0285, 5101173, 1600-0106, 1600-0107

# WORK LIGHTS



Product	HS2DR Pro	HSSR	HS45DR Duo	IL150B	WL280B	WL200B
<b>Batteries (incl.) or battery cell type</b>	Li-Ion battery 3.7 V 10400 mAh	Li-Ion battery 3.7 V 2600 mAh	Li-Ion battery 14,8 V 5200 mAh	3x Micro AAA Alkaline	3x Mignon AA Alkaline	3x Micro AAA Alkaline
<b>Light sources</b>	10 W Cree LED 2x S W Cree LED	5 W Cree LED	120 LEDs max. 60 W	3 W COB LED 1 W LED	6x 0.65 W SMD LED 4 x 3 mm LED	5x 0.65 W SMD LED 1,3 W LED
<b>Headlight range (m) according to ANSI FL1</b>	470	500	80	16	40	15
<b>Light duration (h)</b>	119	9.5	12	20	25	8.5
<b>Brightness (Lumen)</b>	1700	420	4500	150	280	220
<b>Brightness (Lux)</b>	55140	63150	6450	250	320	320
<b>Focusable</b>						
<b>Holding magnet</b>	•	•	•	•	•	•
<b>Rotatable head / handle</b>	•	•	•	•	•	•
<b>Hook</b>						
<b>Power failure electronics</b>	•	•	•	•	•	•
<b>Charging via USB</b>	•	•	•	•	•	•
<b>Energy label (see page 189)</b>	•	•	•	•	•	•
<b>Lighting functions</b>	Dimming 8 - 100 % Warning flash mode Soft-start dimming	100 % / 125 % Warning flash mode	100 % / 75 % 50 % / 125 %	100 % / 30 % main light 100 % top LED	100 % main light 100 % top LED	100 % main light 100 % top LED
<b>Operating temperature</b>	-10 to 25 °C	-10 to 25 °C	-5 to 30 °C	-10 to 25 °C	-20 to 25 °C	-20 to 25 °C
<b>Dust &amp; water protection</b>	IP20	IP20	IP54	IP54	IP54	IP21
<b>Dimensions (mm)</b>	215 x 81 x 105	215 x 81 x 105	289 x 176 x 132	185 x 35 x 20	189 x 60 x 40	125 x 65 x 22
<b>Weight (g)</b>	990	800	2140	56	252	195
<b>PU</b>	6	6	1	8	6	6
<b>Included accessories</b>	Charging station colour filter disk Micro USB charging cable	Charging station colour filter disk Micro USB charging cable	Charging station colour filter disk Battery pack	Charging station colour filter disk Micro USB charging cable	Charging station colour filter disk Battery pack	Micro USB charging cable
<b>Details</b>	Page 130	Page 132	Page 132	Page 133	Page 134	Page 135
<b>Part number</b>	1600-0223	1600-0222	1600-0358	1600-0211	1600-0179	1600-0180



Product	WL30B	WL180B	WL250B	WL450R
<b>Batteries (incl.) or battery cell type</b>	1x Micro AAA Alkaline	3x Mignon AA Alkaline	4x Mignon AA Alkaline	Li-Ion Battery 3.7 V 2000 mAh
<b>Light sources</b>	1 W COB LED	3 W COB LED	1 W SMD LED 3 W COB LED	4 W COB LED 3 W LED
<b>Headlight range (m) according to ANSI FL1</b>	7	17	19	31
<b>Light duration (h)</b>	4.5	31	7.5	23
<b>Brightness (Lumen)</b>	40	200	215	490
<b>Brightness (Lux)</b>	50	275	360	970
<b>Focusable</b>				
<b>Holding magnet</b>		•	•	•
<b>Rotatable head / handle</b>				
<b>Hook</b>		•	•	•
<b>Power failure electronics</b>				
<b>Charging via USB</b>				•
<b>Energy label (see page 189)</b>				•
<b>Lighting functions</b>	100 %	100 % / 50 %	100 % main light 100 % top LED	100 % main light 100 % top LED
<b>Operating temperature</b>	-10 to 50 °C	-10 to 50 °C	-20 to 25 °C	-10 to 50 °C
<b>Dust &amp; water protection</b>	IP20	IP20	IPX3	IPX4
<b>Dimensions (mm)</b>	85 x 38 x 33	125 x 65 x 31	290 x 38 x 23	125 x 422 x 27,5
<b>Weight (g)</b>	150	300	190	300
<b>PU</b>	60	30	16	32
<b>Included accessories</b>		4 Btl's		Micro USB charging cable
<b>Details</b>	Page 136	Page 137	Page 135	Page 137
<b>Part number</b>	1600-0302	1600-0303	1600-0265	1600-0304

# FLOODLIGHTS

## Construction lights



Product	FL800R	FL1600R	FL2400R	FL800AC	FL1600AC	FL2400AC
<b>Battery cell type</b>	Li-Ion Battery 7,4 V 2200 mAh	Li-Ion Battery 7,4 V 4400 mAh	Li-Ion Battery 11,1 V 4400 mAh			
<b>Light sources</b>	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED
<b>Weightage</b>	10	20	30	10	20	30
<b>Input voltage</b>	100 - 240 V AC (Netzteil)	100 - 240 V AC (Netzteil)	100 - 240 V AC (Netzteil)	230 V AC	230 V AC	230 V AC
<b>Output voltage</b>	500 mA	1000 mA	1000 mA			
<b>Dust &amp; water protection</b>	IP54	IP54	IP54	IP54	IP54	IP54
<b>Impact resistance</b>	IK05	IK05	IK05	IK05	IK05	IK05
<b>Protection class</b>	3	3	3	1	1	1
<b>Colour temperature (Kelvin)</b>	5000	5000	5000	5000	5000	5000
<b>Colour rendering index (CRI)</b>	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80
<b>Brightness (Lumen)</b>	800	1600	2400	800	1600	2400
<b>Light duration (h)</b>	12	10	10			
<b>Charging time (h)</b>	4	4,5	5,5			
<b>Maximum projection area</b>	474 cm <sup>2</sup>	726 cm <sup>2</sup>	797 cm <sup>2</sup>	446 cm <sup>2</sup>	694 cm <sup>2</sup>	825 cm <sup>2</sup>
<b>Operating temperature</b>	-20 to 50° C	-20 to 50° C	-20 to 50° C	-20 to 50° C	-20 to 50° C	-20 to 50° C
<b>Energy label (see page 189)</b>	•	•	•	•	•	•
<b>Dimensions (mm)</b>	170 x 117 x 240	225 x 130 x 285	250 x 142 x 330	170 x 117 x 240	225 x 130 x 285	250 x 142 x 330
<b>Weight (g)</b>	914	1485	1856	985	1403	1674
<b>PU</b>	6	6	6	6	6	6
<b>Included accessories</b>	Power supply	Power supply	Power supply			
<b>Warranty*</b>	10 years*	10 years*	10 years*	10 years	10 years	10 years
<b>Details</b>	Page 140	Page 140	Page 140	Page 141	Page 141	Page 141
<b>Part number</b>	1600-0274	1600-0275	1600-0276	1600-0277	1600-0278	1600-0279

\* except battery pack

## Wall spotlight



Product	WFL800	WFL1600	WFL2400	WFL800S	WFL1600S	WFL2400S
<b>Light sources</b>	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED	SMD LED
<b>Weightage</b>	10	20	30	10	20	30
<b>Input voltage</b>	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC
<b>Dust &amp; water protection</b>	IP54	IP54	IP54	IP54	IP54	IP54
<b>Impact resistance</b>	IK05	IK05	IK05	IK05	IK05	IK05
<b>Protection class</b>	1	1	1	1	1	1
<b>Colour temperature</b>	5000	5000	5000	5000	5000	5000
<b>Colour rendering index (CRI)</b>	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80	RA > 80
<b>Brightness (Lumen)</b>	800	1600	2400	800	1600	2400
<b>Mounting height</b>	max. 3 m	max. 3 m	max. 3 m	max. 3 m	max. 3 m	max. 3 m
<b>Burn time sensor</b>		40 sek - 5 min				
<b>Sensor range</b>		max. 12 m				
<b>Sensor detection angle</b>		Horizontal: 180° Vertikal: +10° - 80°				
<b>Maximum projection area</b>	250 cm <sup>2</sup>	420 cm <sup>2</sup>	585 cm <sup>2</sup>	250 cm <sup>2</sup>	420 cm <sup>2</sup>	585 cm <sup>2</sup>
<b>Operating temperature</b>	-20 to 50° C	-20 to 50° C	-20 to 50° C	-20 to 50° C	-20 to 50° C	-20 to 50° C
<b>Energy label (see page 189)</b>	•	•	•	•	•	•
<b>Dimensions (mm)</b>	150 x 50 x 170	200x 75 x 225	231 x 41 x 202	145 x 50 x 170	200 x 75 x 225	235 x 35 x 200
<b>Weight (g)</b>	365	759	1150	422	819	1197
<b>PU</b>	6	6	6	6	6	6
<b>Warranty</b>	10 years	10 years	10 years	10 years	10 years	10 years
<b>Details</b>	Page 144	Page 144	Page 144	Page 145	Page 145	Page 145
<b>Part number</b>	1600-0280	1600-0281	1600-0282	1600-0283	1600-0284	1600-0285

# HOME & OFFICE



Product	Twintflex	RC2	Action COB	Laserpointer 4in1	Keychain 2in1
Included batteries	3x Micro AAA Alkaline	NiMH Battery 160 mAh	3x Micro AAA Alkaline	3x LR41 coin cells	3x LR41 coin cells
Battery Cell type / voltage	2x SMD LED	3x LED	1 W COB	1x LED	1x LED
Light sources	Nahbereich	20	19	500	50
Headlight range (m) according to ANSI FL1	95	3	6		
Light duration (h)	50	12	1.75		
Brightness (Lumen)	80	200	92		
Brightness (Lux)	6500 - 7500				
Colour temperature (Kelvin)					
Magnet	•				
Rotatable head / handle	•				
Laser pointer			•	•	•
Touch screen pen			•		
Ballpoint pen			•		
Twilight sensor					
Motion detector					
Energy label (see page 189)		•			
Lighting functions	100 % 150 %	100 %	100 %	100 %	100 %
Dust & water protection		IPX3			
Dimensions (mm)	255 x 40 x 45	149 x 44 x 33	95 x ø 29	153 x ø 10	60 x ø 10
Weight (g)	60	87	86	29	13
PU	4	4	96	10	12
Details	Page 152	Page 152	Page 152	Page 153	Page 153
Part number	1600-0119	5101173	5016243	1600-0269	1600-0270



Product	Stylus Touch 4in1	Keychain Light	ML25B	ML10AC	ML15AC + 2USB
Included batteries	3x LR41 coin cells	4x LR41 coin cells	3x Micro AAA Alkaline		
Battery Cell type / voltage	1x LED	1x LED	2 W COB LED	SMD LED	SMD LED
Light sources	100	5	200	5	15
Headlight range (m) according to ANSI FL1					
Light duration (h)					
Brightness (Lumen)					
Brightness (Lux)					
Colour temperature (Kelvin)					
Magnet			•		
Rotatable head / handle					
Laser pointer	•				
Touch screen pen	•				
Ballpoint pen	•				
Twilight sensor			•	•	•
Motion detector			•		
Energy label (see page 189)					
Lighting functions	100 %	100 %	Orientation light: 100 % / 50 % Sleep light	100 %	100 %
Dust & water protection					
Dimensions (mm)	120 x ø 10	50.5 x ø 10	50 x 90 x 34	60 x 60 x 54.5	72.5 x 59 x 59.5
Weight (g)	22	13	76	32	54
PU	10	12	8	54	30
Details	Page 153	Page 153	Page 154	Page 155	Page 154
Part number	1600-0271	1600-0272	1600-0105	1600-0106	1600-0107

## ANSMANN AG

Industriestr. 10  
97959 Assamstadt  
Germany

Phone: +49 (0) 6294 4204-0  
E-Mail: [info@ansmann.de](mailto:info@ansmann.de)

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Marco Schoppa  
Kevin Bailey  
Unsplash  
iStock

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and printing errors.  
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of their respective owners.

## ANSMANN UK LTD.

Units 11-12, R024  
Harlow Business Park  
Harlow, Essex, CM19 5QB  
United Kingdom  
Phone: +44 (0) 870 609 2233  
E-Mail: [uk@ansmann.de](mailto:uk@ansmann.de)

## ANSMANN ENERGY FRANCE

5, Place Copernic,  
Immeuble Boréal - Courcouronnes  
F-91023 Evry Cedex  
Paris, France  
Phone: +33 (1) 60791479  
E-Mail: [france@ansmann.de](mailto:france@ansmann.de)

## ANSMANN ELECTRONICS CO. LTD.

Da Lian Industrial Park, Rengtu,  
Ruhu Town Huicheng District,  
Huizhou City, Guangdong,  
China Postal Code: 516169  
China  
Phone: +86 752 6276688  
E-Mail: [china@ansmann.de](mailto:china@ansmann.de)

## ANSMANN NORDIC AB

Hus Y  
Brodalsvägen 7  
SE-433 38 Partille  
Göteborg, Sweden  
Phone: +46 (0) 31 47 32 00  
E-Mail: [nordic@ansmann.de](mailto:nordic@ansmann.de)

## ANSMANN ENERGY INTERNATIONAL LTD.

Unit 3117-18, 31/F,  
Tower 1, Millennium City 1,  
No. 388 Kwun Tong Road,  
Kwun Tong, Kowloon, Hong Kong  
Phone: +852 2877 8233  
E-Mail: [hongkong@ansmann.de](mailto:hongkong@ansmann.de)

## ANSMANN TRADING COMPANY LTD.

Da Lian Industrial Park, Rengtu,  
Ruhu Town Huicheng District,  
Huizhou City, Guangdong,  
China Postal Code: 516169  
China  
Phone: +86 752 6276688  
E-Mail: [china@ansmann.de](mailto:china@ansmann.de)

Part No. 0010-0189



EN  
[ansmann.de](http://ansmann.de)