

## PowerBooster - Technical Information

### Product Description / Features

The PowerBooster is a world first: It is the first USB adapter cable that offers a boost of any input current up to max. 1.2 Ampere output current. In addition, it contains a power bank with integrated Li-Ion battery. The device is simply connected between the charger and the end device, the end device is then periodically charged as soon as current flows from the charger. Alternatively, in power bank mode, the entire battery charge can be discharged into the external device.

During cycle operation, the output is periodically switched on and off with a cycle time in the minute range, which also depends on the input and output currents. This ensures stable and efficient charging of USB terminals such as smartphones or tablets even with fluctuating input currents, for example from solar direct chargers. The PowerBooster is particularly suitable for charging devices with a minimum charging current of up to max. 1000mA, which do not accept charging currents below this minimum (e.g. iPhone: approx. 400mA, iPad: approx. 900 mA). Solar direct chargers cause constant problems in these cases if there is no stable and high solar radiation without interruption such as clouds or movements of the charger.

In addition, an ultra-bright warm white LED lamp is integrated for lighting purposes. The state of charge of the battery can also be queried via the LED (flashing signal) The PowerBooster consists of an elegant, UV-resistant white plastic housing and is internally equipped with highly efficient components. It has a very long service life of 5-8 years with typical intervals of use. The battery can be exchanged by us at any time.

### Technical Data

• Output Voltage:	no-load 5,1V / with load 4.0 – 5.1V
• Output Current:	1200mA max.
• Input Voltage Range:	4.5 – 5.5V
• Input Current Range:	10 - 1000mA
• Battery Capacity:	1500mAh
• Light Duration LED:	max. 50 hours
• Cycle Time:	@ 0.5A In, 1A Out: 2.5-3 min / 1.5-2 min
• Efficiency / quiescent current:	max. 85% (charge + discharge) / < 0.5mA
• Temperature Range:	-10 ... +50°C ambient temperature
• Humidity Range:	up to 90%
• Conformity:	CE, ROHS
• Dimensions / Weight:	62 x 39 x 19mm / ca. 30g



### USP

- World's first cycle charger / PowerBooster
- The PowerBooster is simply connected between the solar direct charger and the USB device. Charging is then fully automatic and always with maximum current and efficiency. In contrast, a Powerbank always has to be charged and discharged in a manual 2-step process.
- Additional powerbank function integrated, e.g. at night for charging of USB devices in 1 step
- Additional ultra-bright LED integrated for lighting purposes
- Made in Germany