

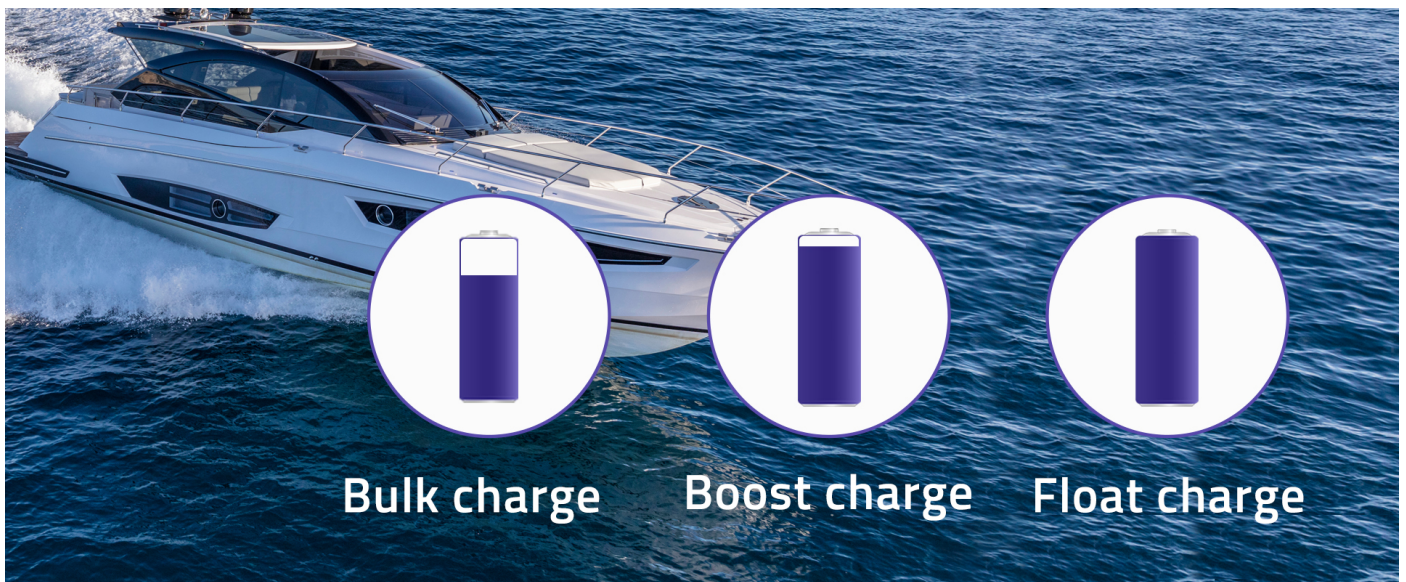


## Qoltec Smart Monolith charger for LiFePO4 AGM GEL SLA batteries | 20A | 12V

Product code: 51959

Intelligent automatic charger with mode switching for 3-stage charging of various types of 12V batteries including AGM, GEL, SLA and LiFePO4. It has safety features to ensure safe use and the ability to automatically switch off when the battery is charged.

### INTELLIGENT 3-STAGE CHARGING



**Bulk charge**

**Boost charge**

**Float charge**

The Monolith smart charger will charge your battery using intelligent 3-stage charging which involves adjusting the charging voltage and current to the current state of charge of the battery, it consists of 3 stages :

**The BULK** stage is the identification of the battery and its needs, charging up to 80% of the battery capacity, with a maximum current kept constant and a high voltage, **The BOOST** The BOOST stage is the so-called absorption charging, it keeps the charging voltage constant between 14.1VDC and 14.8VDC, reducing the charging current, **The FLOAT** stage is the last charging cycle, a so-called sustained charge in which the battery has already reached 95% of its capacity and gradually reaches 100%, there is a reduction in the charging voltage to a constant value between 13.0VDC and 13.8VDC, the charging current automatically drops to 0A once the battery is charged.

The current charging stage of the battery is indicated by an LED on the charger.

Intelligent 3-stage charging has many advantages, above all it can:

- Ensure that the battery is fully and evenly charged, improving performance and battery life,
- Prevent overheating, overcharging or damaging the battery, which improves battery safety and reliability,
- Save energy and costs, as it reduces the loss of energy and time required to charge the battery.

## COMPATIBLE WITH MANY TYPES OF BATTERIES



The Monolith charger is designed to work seamlessly with a wide range of different types of batteries, including AGM, GEL, calcium, SLA and LiFePO4, providing them with a stable and safe energy source and a guarantee that the battery will remain in good condition throughout its lifetime.

## TRUST OUR CHARGERS - ENJOY UNINTERRUPTED ENERGY



- **Equipped with DIP-switch** - this is the charger's component for changing the battery charging settings - it allows 7 different SW combinations to be set, we can adjust the charging mode according to the battery type you have, e.g. charging SLA / gel / AGM / flooded / calcium and LiFePO4 lead-acid batteries, as well as the constant voltage power supply mode,
- **3-stage charging mode** - provides much faster, efficient and full charging without the problem of voltage drops,
- **Durable aluminium housing** - perfectly conductive and corrosion-resistant,
- **Built-in active cooling** - automatically switches on when charging and protects the charger especially when charging heavily discharged batteries,
- LED indication of charger operation,
- **Built-in fuse**,
- Features short-circuit, reverse polarity, overcharging and overheating protection,
- **Automatic shutdown** at the end of the charging process - switches off charging mode and remains in sleep mode when the battery is charged,
- Necessary wiring included and fuse.

## SAFETY IS OUR PRIORITY



When designing the chargers, we placed safety above all else, which is why the product is equipped with comprehensive safety features, including protection against reverse polarity, overvoltage or overheating. For safety reasons, the input and output of the charger have been completely isolated. UVP protection - protects against under-voltage at the output, SCP protection - it protects against short circuits, OVP protection - it protects against too high output voltage, OCP protection - it protects against too high current on the line, OTP protection - is protection against overheating.

## CONFIDENCE CONFIRMED BY A GUARANTEE

Do you care about the high quality of the product you are buying? Our solutions will meet your expectations. The chargers we offer come with a 24-month guarantee from the date of purchase.

## TECHNICAL DATA

Producer	Qoltec
Type of charging	3 step charging mode
Input voltage	180 - 260V
Output voltage	12-15VDC
Output current	Max 20A
Load Adjustment	1.5% for output current; from no load to full load 0-40°C
Efficiency	88%
Connector	Red + black crocodile-type terminals with brass contacts
Application	LiFePO4 AGM GEL SLA EFB Calcium
Cooling system	1 x Fan with thermal control
Protection	Short-circuit protection Protection against overheating Overcurrent protection Protection against low voltage Overvoltage protection Reverse polarity protection
Protection against inverse polarity	Yes
Operating temperature	0°C ~ +40°C
Usage	LiFePO4 AGM GEL SLA EFB Calcium
Additional information	The device has been CE tested and confirms compliance with the applicable directives and standards.
Attention	Charger designed for 12 V batteries only Make sure that the cables are properly matched to the batteries Before removing the battery, first switch off all consumers and then disconnect it from the circuit Only use rechargeable batteries Never attempt to charge a frozen or damaged battery !
Dimensions (D/L x W x H)	150 x 225 x 70 mm
Package	Box
Package contents	1 x Battery charger 1 x Power cable 1 x Starter cable set 1 x Fuse 1 x Operating instructions
Package depth / length [mm]	205
Package width [mm]	298
Package height [mm]	140
Net weight [kg]	1.800
Gross weight [kg]	2.064
Certificate	CE
Warranty	24 month
EAN code	5901878519593