


# 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.

## STABLE AND SAFE POWER SOURCE FOR ALL LIFEPO4, AGM, GEL AND SLA BATTERIES



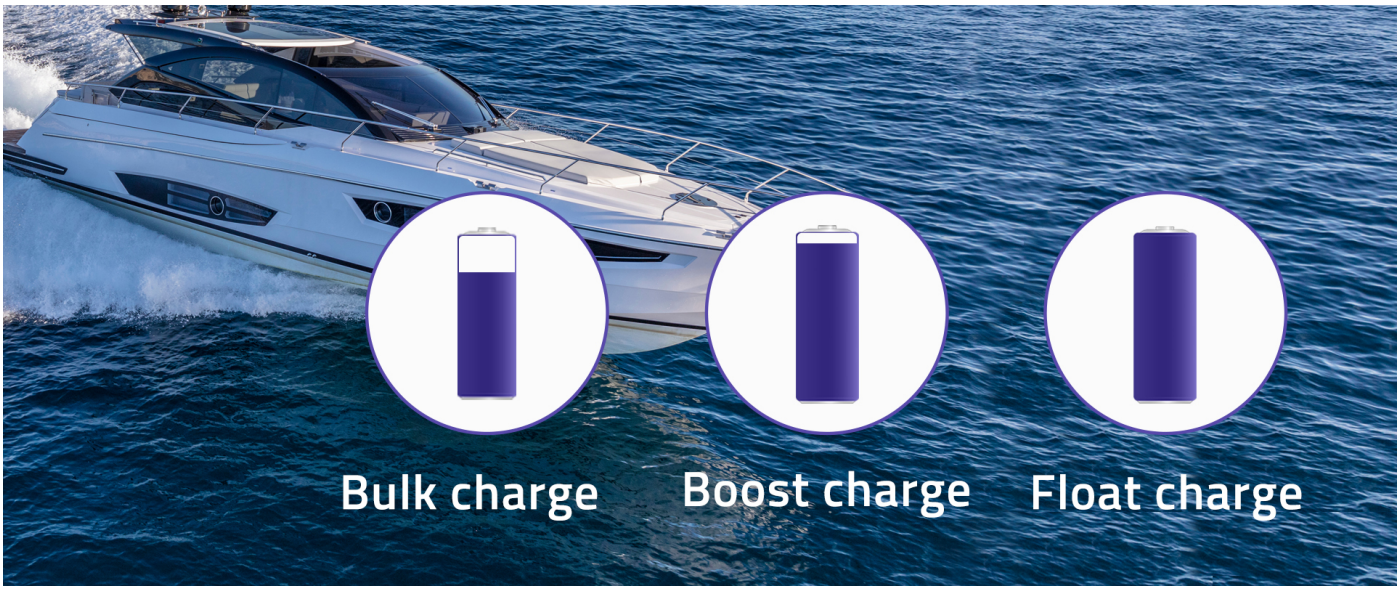




Precise Charging with Configurations to Suit Different Battery Types

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.

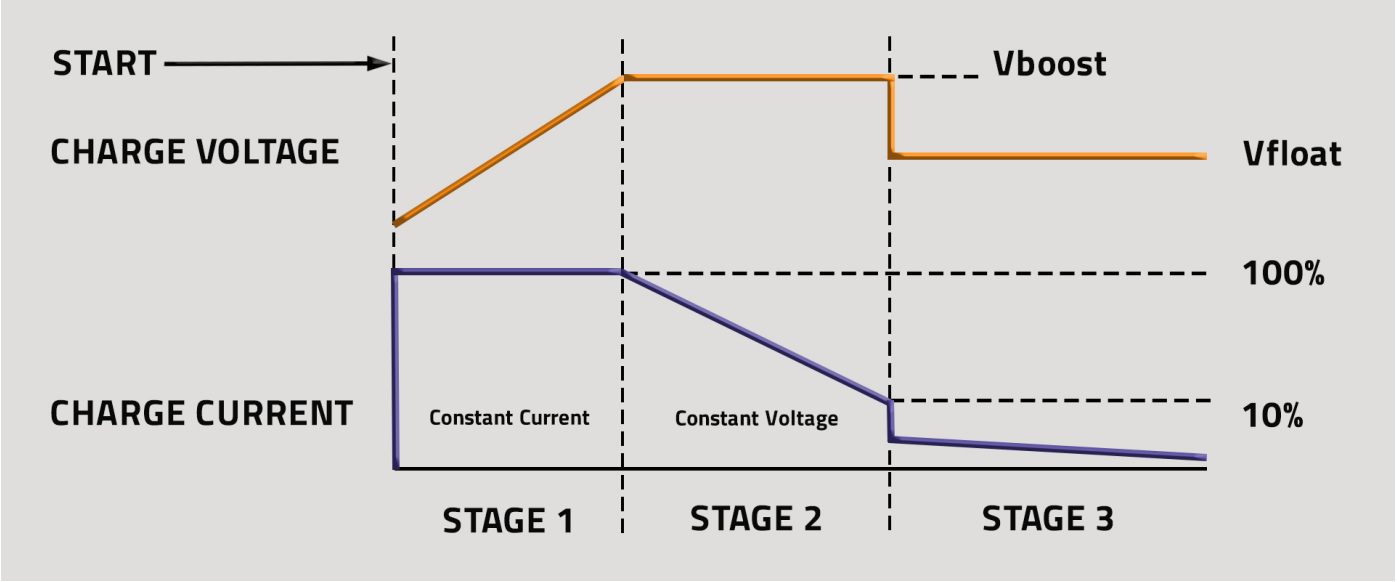
## DISCOVER THE EXCEPTIONAL POWER OF SMART CHARGING WITH THE MONOLITH CHARGER




Integrated with Intelligent 3-Stage Charging Process for Optimal Battery Performance

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.

## OPTIMAL PERFORMANCE, LONG BATTERY LIFE, AND MINIMISATION OF COSTS AND ENERGY LOSSES




Perfect maintenance of your battery at every stage of charging
**Intelligent 3-stage charging has many advantages**, most notably:
- Ensures **full and even battery charging**, which improves its performance and service life,
- **Prevent the battery from overheating, overcharging or damage**, which increases its safety and reliability,
- Save energy and costs, as it **minimises energy loss and the time** needed to charge the battery.

## TRUST OUR CHARGERS - ENJOY UNINTERRUPTED ENERGY



Automatic switch-off, durable aluminium casing, active cooling
- **3-stage charging mode -** ensures significantly faster, efficient and full charging without voltage drops,
- **Durable housing -** corrosion resistant,
- **Last setting memory -** the charger remembers the selected battery type and operating mode,
- Built-in **active cooling -** automatically activates during charging and protects the charger, especially when charging heavily discharged batteries,
- LED charging status indicator,
- **Built-in fuse**,
- Features **protection** against short circuits, reverse polarity, overcharging and overheating,
- **Automatic shutdown** after charging is complete - once the battery is charged, it switches off charging mode and remains in sleep mode,
- Necessary cabling and additional fuse included.

## START WITHOUT RECONFIGURATION – READY IMMEDIATELY AFTER START-UP

Settings memory – convenience in everyday use
It features a settings memory, thanks to which **after restarting, it automatically returns to the last selected operating mode.** This is a practical solution, especially when the device is used cyclically or in hard-to-reach places.
Thanks to the memory function, the charger:
- saves the last selected battery type,
- **does not require reconfiguration after reconnection**, always starts charging with the correct parameters,
- reduces preparation time,
- eliminates errors - minimises the risk of accidentally selecting the wrong mode.

## DESIGNED FOR SIMPLE AND SAFE OPERATION

Connecting the charger to the battery
Correct connection of the cables ensures stable charging and protection of the battery. Follow the instructions below.
- Prepare the cables: red (+) and black ( ).
- **Connect the red (+) cable to the positive terminal of the battery and the black ( ) cable to the negative terminal of the battery,**
- **Connect the plug,**
- **When charging is complete, disconnect the charger from the power outlet, then disconnect the cables from the battery (black first, then red).**

## SAFETY IS OUR PRIORITY




Use of advanced security measures
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

The product is covered by a 24-month warranty.
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 |
| Input voltage | 180 - 260V |
| Output voltage | 12-15VDC |
| Type of charging | 3 step charging mode |
| Output current | Max 20A |
| Load Adjustment | 1.5% for output current; from no load to full load 0-40°C |
| Connector | Red + black crocodile-type terminals with brass contacts |
| Efficiency | 88% |
| Cooling system | 1 x Fan with thermal control |
| Protection | Short-circuit protection<br>Protection against overheating<br>Overcurrent protection<br>Protection against low voltage<br>Overvoltage protection<br>Reverse polarity protection |
| Protection against inverse polarity | Yes |
| Usage | LiFePO4<br>AGM<br>GEL<br>SLA<br>EFB<br>Calcium |
| Additional information | The device has been CE tested and confirms compliance with the applicable directives and standards. |
| Notices | Charger designed for 12 V batteries only<br>Make sure that the cables are properly matched to the batteries<br>Before removing the battery, first switch off all consumers and then disconnect it from the circuit<br>Only use rechargeable batteries<br>Never attempt to charge a frozen or damaged battery ! |
| OTHER PARAMETERS | |
| Colour | Grey, black |
| Material | Plastic, metal |
| Operating temperature | 0°C ~ +40°C |
| Dimensions (D/L x W x H) | 150 x 230 x 80 mm |
| Package | Box |
| Package contents | 1 x Battery charger<br>1 x Power cable<br>1 x Starter cable set<br>1 x Fuse<br>1 x Operating instructions |
| Package depth / length [mm] | 225 |
| Package width [mm] | 320 |
| Package height [mm] | 155 |
| Net weight [kg] | 1.800 |
| Gross weight [kg] | 2.064 |
| Certificate | CE |
| Warranty | 24 month |
| EAN code | 5901878519593 |