

Qoltec Solar Charge Controller MPPT with Temperature Sensor 20A | 12V / 24V | LCD | 2 x USB | Bluetooth | APP | GEL | LiFePO4

Product code: 53661

A solar charge controller designed to manage the battery charging process in photovoltaic systems. Equipped with Maximum Power Point Tracking (MPPT) technology, the controller ensures maximum efficiency and optimization of solar panel performance. The clear LCD display allows real-time monitoring of device status, load, system parameters, and battery charge status. The built-in temperature sensor monitors the battery temperature, adjusting the charging parameters accordingly.

Download our app QOLTEC SOLAR.

SMART SOLAR ENERGY MANAGEMENT





Get the most out of your system with MPPT technology

The controller **uses MPPT technology, which maximises energy efficiency by enabling the optimal use of solar energy** . As a result, the system **constantly monitors and adjusts the voltage and current from the photovoltaic panels** to ensure the maximum power point. This advanced energy management **enables you to achieve the highest possible efficiency from your solar panels**, even under variable weather conditions, such as partial shading or changes in sunlight intensity.

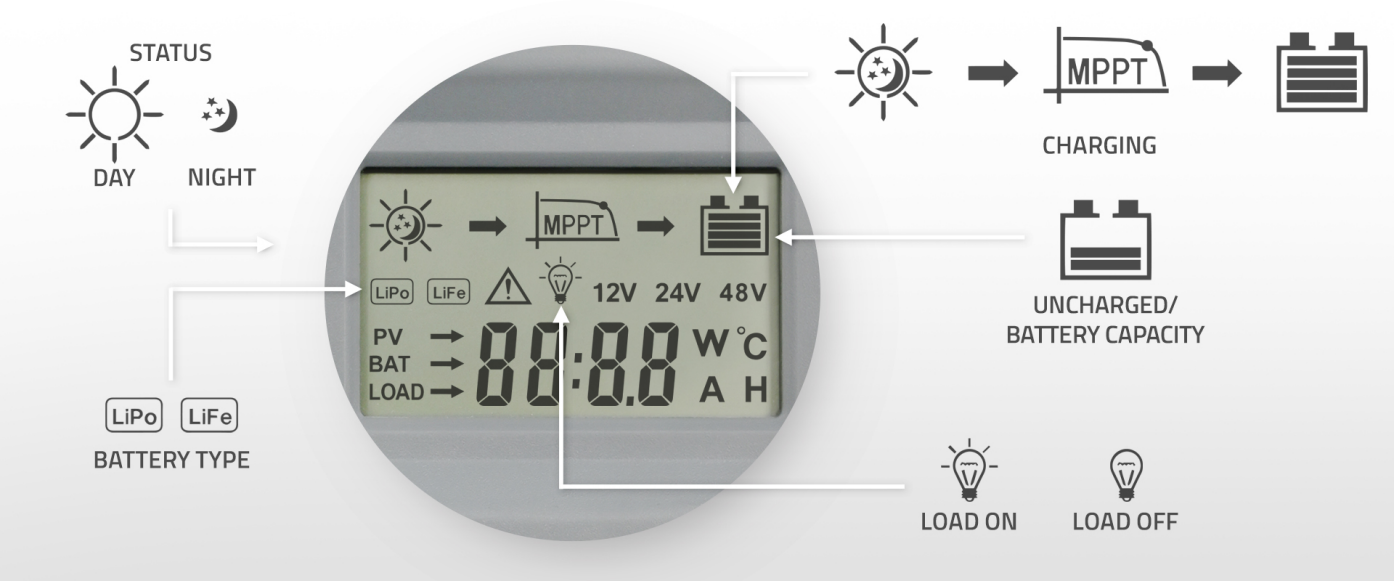
ADJUST THE SYSTEM TO YOUR NEEDS



Using a Charge Controller on a Boat and in a Motorhome

A charge controller is an essential component in photovoltaic systems on boats and in motorhomes. A solar system **ensures independence from mains power supplies, allowing you to use energy in places where access to the mains is limited or non-existent** . The controller not only ensures efficient battery charging and guarantees that **solar panels operate at maximum efficiency**, but also **provides protection against various hazards, such as over-discharge, overloading or reverse connection** . As a result, solar systems can operate reliably, providing the energy needed both at sea and whilst travelling on the road.

INTELLIGENT SYSTEM MANAGEMENT



The built-in LCD display ensures maximum functionality and ease of use
The intuitive interface allows you to navigate settings quickly and easily adjust parameters to suit your needs.

- **Easy configuration** and operation thanks to a clear menu
- **Remote monitoring via a mobile app**
- **Battery protection against overheating and overcharging thanks to a temperature sensor**
- **Instant notifications of errors and alarms**

OPTIMAL PERFORMANCE THROUGH ADVANCED MONITORING



Intuitive interface, full control, Bluetooth
The product is equipped with an advanced LCD display and Bluetooth, which provides users with full control and transparency regarding the system's operation. **The display's intuitive menu makes it easy to configure and customise settings to suit the user's individual needs**. The display shows current operating parameters, allowing you to monitor the system's performance in real time. **Thanks to the external temperature sensor and Bluetooth connectivity, you can remotely monitor the system's status via a mobile app, whilst protecting the battery from overcharging or overheating**. Users can quickly check the current operating status and information about any errors or alarms.

YOUR SAFETY IS OUR PRIORITY – ADVANCED SECURITY TECHNOLOGIES







Comprehensive protection – from overheating protection to short-circuit protection
The product is equipped with a range of safety features that ensure safe and reliable use:

- **Automatically disconnects the system if a short circuit is detected, protecting the equipment and the installation**
- **Battery over-discharge protection**: disconnects the load when the voltage drops below a safe level
- **Equipped with a temperature sensor** which monitors the unit's temperature; if the temperature exceeds a safe level, the controller may reduce the charging rate or shut down the system completely until it has cooled down
- **Automatically disconnects the load when it detects that the current exceeds safe limits**
- **Equipped with a polarity detection circuit**, which checks that the solar panel cables are correctly connected
- **Battery reverse connection protection** blocks the flow of current, preventing damage to the battery and the controller

CONFIDENCE CONFIRMED BY A WARRANTY

This product comes with a 24-month warranty
Do you want to be sure of the high quality of the product you're buying? Our solutions will meet your expectations. The controller we offer comes with a **24-month warranty** valid from the date of purchase.

TECHNICAL DATA

Producer	Qoltec
Maximum power	260W for PV 12V | 520W for PV 24V
Rated voltage	12/24V
Rated current	20A
Maximum voltage	(PV) 60V
MPPT efficiency	95%
Display	LCD
Safety	Short-circuit protection Overheating protection Overload protection Overcharge protection
Usage	Home photovoltaic systems Portable solar kits Solar systems in RVs and caravans Solar installations on boats and yachts Any location requiring efficient and reliable battery charging management
Additional information	Equipped with Maximum Power Point Tracking (MPPT) technology Bluetooth option USB : 5V/2A
IP rating	IP30
Operating temperature	-20°C ~ +55°C
Storage temperature	-30°C do +80°C
OTHER PARAMETERS	
Colour	Grey, Green
Material	ABS, metal
Dimensions (D/L x W x H)	177 x 125 x 48 mm
Package	Box
Package contents	1 x MPPT Controller 1 x User Manual
Package depth / length [mm]	185
Package width [mm]	132
Package height [mm]	55
Net weight [kg]	0.554
Gross weight [kg]	0.623
Certificate	CE
Warranty	24 month
EAN code	5901878536613