



## 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.

### SMART SOLAR ENERGY MANAGEMENT



### Unlock maximum potential with MPPT technology

The controller uses MPPT technology, which maximizes energy efficiency by enabling optimal utilization of solar power. It continuously monitors and adjusts the voltage and current from the photovoltaic panels to ensure maximum power point tracking. This advanced energy management allows for the highest possible efficiency from solar panels, even under varying weather conditions such as partial shading or changes in sunlight intensity.

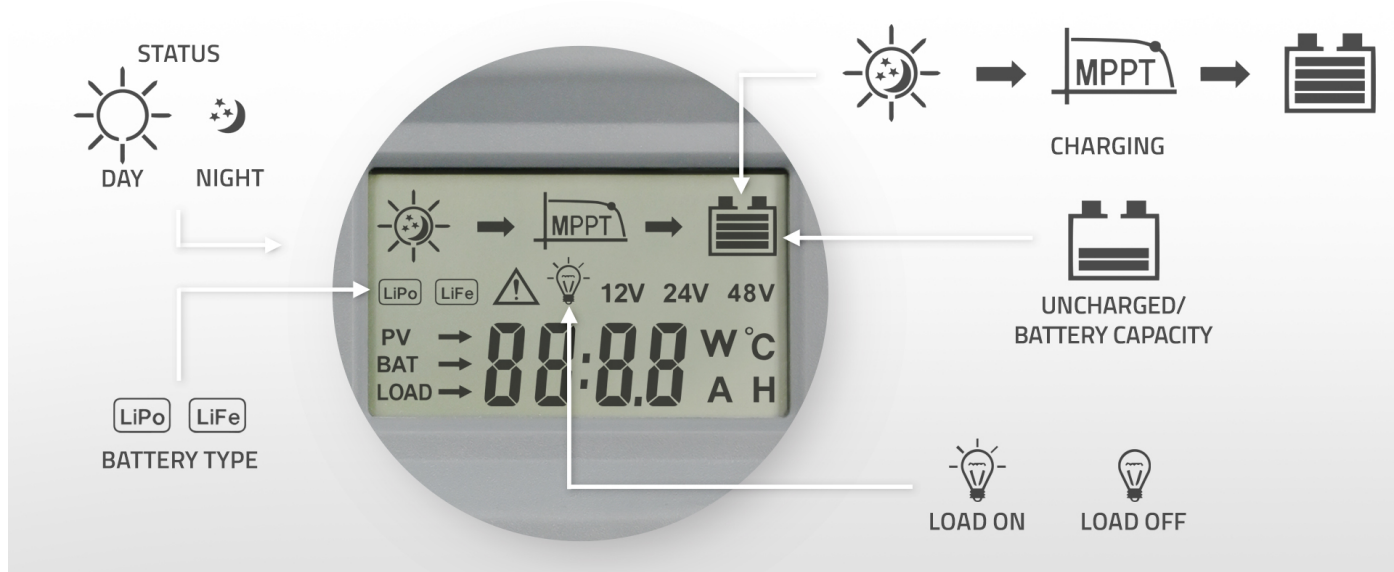
## ADJUST THE SYSTEM TO YOUR NEEDS



## Using the Charging Regulator on a Boat and a Camper

The charge controller is an essential component in photovoltaic systems on boats and RVs. The solar system provides independence from stationary power sources, allowing the use of energy in places where access to the grid is limited or non-existent. The controller ensures not only efficient battery charging and maximum performance of the solar panels but also protection against various hazards such as excessive discharge, overload, and reverse connection. This ensures that solar systems operate reliably, delivering the necessary power both on the water and during road trips.

## OPTIMAL PERFORMANCE THROUGH ADVANCED MONITORING



## Intuitive Interface, Complete Control

The product is equipped with an advanced LCD display, providing users with full control and transparency of the system's operation. The intuitive menu makes it easy to configure and adjust settings to meet individual needs. The display shows current operating parameters, allowing real-time monitoring of the system's performance. Users can quickly check the current operational status and receive information about any errors or alarms.

## YOUR SAFETY IS OUR PRIORITY – ADVANCED SECURITY TECHNOLOGIES



### Complete protection – from overheating safeguards to short-circuit protection

The product is equipped with a number of safety features to ensure safe and reliable use : **Short-circuit protection**: Automatically disconnects the system when a short circuit is detected, protecting the equipment and installation **Battery over-discharge protection** : disconnects the load when the voltage drops below a safe level **Overheating protection**: is equipped with a temperature sensor that monitors the temperature of the unit, when the temperature exceeds the safe level, the controller can reduce the charging capacity or shut down the system completely until it cools down **overload protection**: automatically disconnects the load when it detects that the current exceeds the safe limits **Solar panel reverse connection protection**: The regulator is equipped with a polarity detection circuit that checks that the solar panel wires are connected correctly **Battery reverse connection protection** : The regulator blocks the flow of current, preventing damage to the battery and regulator.

## CONFIDENCE CONFIRMED BY A WARRANTY

### Product with 24 months guarantee

Do you care about the high quality of the product you are buying? Our solutions will meet your expectations. The regulator we offer is covered by 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<br>Overheating protection<br>Overload protection<br>Overcharge protection                                                                                                            |
| Usage                       | Home photovoltaic systems<br>Portable solar kits<br>Solar systems in RVs and caravans<br>Solar installations on boats and yachts<br>Any location requiring efficient and reliable battery charging management |
| Additional information      | Equipped with Maximum Power Point Tracking (MPPT) technology<br>Bluetooth option<br>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<br>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                                                                                                                                                                                                 |