


# Qoltec Solar Charge Controller MPPT with Temperature Sensor 50A | 12V / 24V | LCD | Bluetooth | APP | GEL | LiFePO4

**Product code: 53664**

Advanced charge controller for photovoltaic systems, ensuring maximum battery charging efficiency thanks to Maximum Power Point Tracking (MPPT) technology. It features a clear LCD display for monitoring operation, system parameters, and battery status. The built-in temperature sensor automatically adjusts charging parameters according to operating conditions.
Communication: Bluetooth
Compatible with: LiFePo4, GEL
Download our app QOLTEC SOLAR.

## 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.

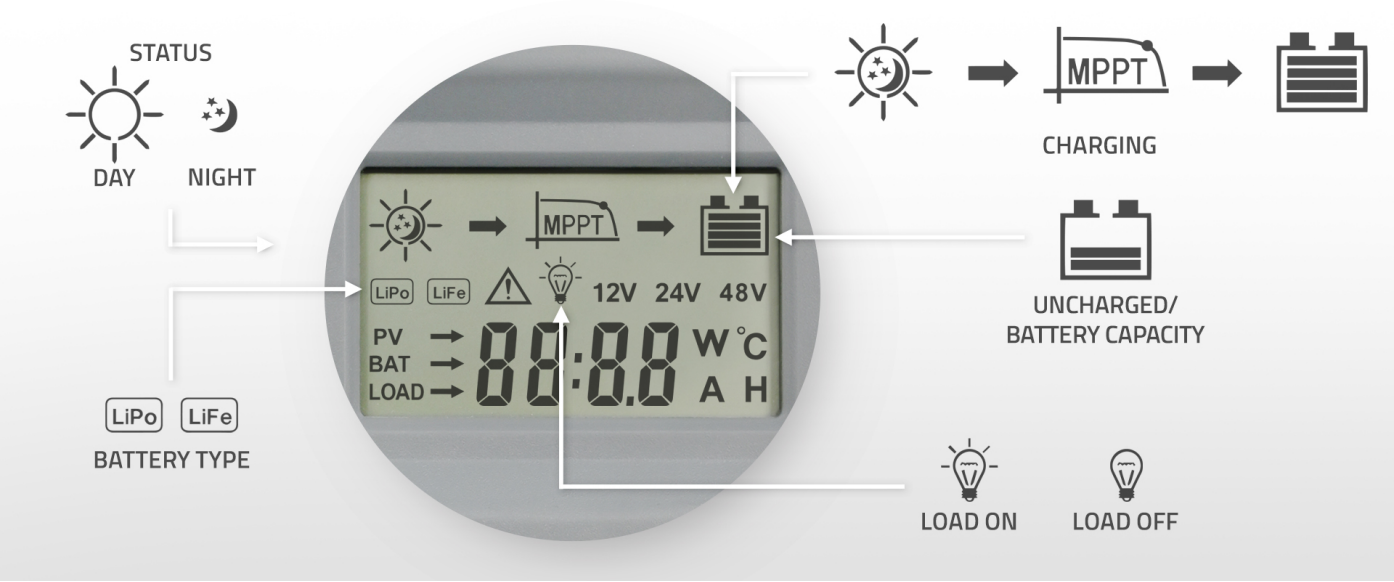
## ADJUST THE SYSTEM TO YOUR NEEDS



Compatibility with LiFePO4 batteries

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. With full compatibility with lithium-iron-phosphate technology, it guarantees precise and safe charging, maximizing battery life.

## INTELLIGENT SYSTEM MANAGEMENT




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

- **Easy setup** and operation with a user-friendly menu
- **Remote monitoring via mobile app**
- **Battery protection from overheating and overcharging thanks to the external temperature sensor**
- **Instant alerts for errors and warnings**

## OPTIMAL PERFORMANCE THROUGH ADVANCED MONITORING




Intuitive Interface, Complete Control, Bluetooth
The product features an advanced LCD display and integrated Bluetooth, providing users with complete control and clear visibility of system operation. **The intuitive display menu simplifies configuration and allows for easy customization of settings to suit individual preferences** . The screen displays real-time operating parameters, enabling continuous performance monitoring. **With an external temperature sensor and Bluetooth connectivity, you can remotely monitor the system's status via a mobile app, while also protecting the battery from overcharging or overheating.** Users can quickly check the current operating status and receive notifications 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 | 650W for PV 12V \| 1300W for PV 24V |
| Rated voltage | 12/24V |
| Rated current | 50A |
| Maximum PV array open circuit voltage | 100V |
| MPPT efficiency | 95% |
| Battery type | Compatibile with GEL, AGM, LiFePO4, Flooded, Li(NiCoMn)o2 |
| 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 a temperature sensor<br>Bluetooth option |
| 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) | 265 x 192 x 92 mm |
| Package | Box |
| Package contents | 1 x MPPT Controller<br>1 x User Manual<br>1 x Warranty card |
| Package depth / length [mm] | 308 |
| Package width [mm] | 215 |
| Package height [mm] | 143 |
| Net weight [kg] | 1.988 |
| Gross weight [kg] | 2.203 |
| Certificate | CE |
| Warranty | 24 month |
| EAN code | 5901878536644 |