

Qoltec Automatic 12V DC-DC Charger with MPPT Controller | 40A | LiFePO4 AGM GEL STD

Product code: 51921

The advanced DC-DC automatic charger with isolated circuit and MPPT charge controller enables efficient charging of batteries from two sources: alternator and photovoltaic panels. Equipped with a MODE button to select one of 5 battery types (LiFePO4, AGM, GEL, STD, CAL), it ensures maximum compatibility. It features automatic voltage regulation and ACC delayed start function, which increases safety and control over the operation of the device. It is a reliable solution for off-grid systems, campers, boats and commercial vehicles.

COMPATIBLE WITH MANY TYPES OF BATTERIES



Maximum compatibility, full control, safe energy

Our DC-DC charger **designed to work seamlessly with a wide range of different types of batteries** , w tym AGM, GEL, STD, CALCIUM and LiFePO4 providing them with a stable and secure source of energy. It allows efficient charging of batteries from different sources without the risk of damaging them. **With the convenient MODE button, you can easily switch charger modes**. The corresponding mode selection is indicated by LEDs. **Ideal for use in 4-wheel drive vehicles** , caravans and campers, trucks, other commercial vehicles, but will also be a good choice for owners of boats, yachts and OFF-GRID systems.

FULL CONTROL OF THE CHARGING CYCLE



Automatic start and stop charging

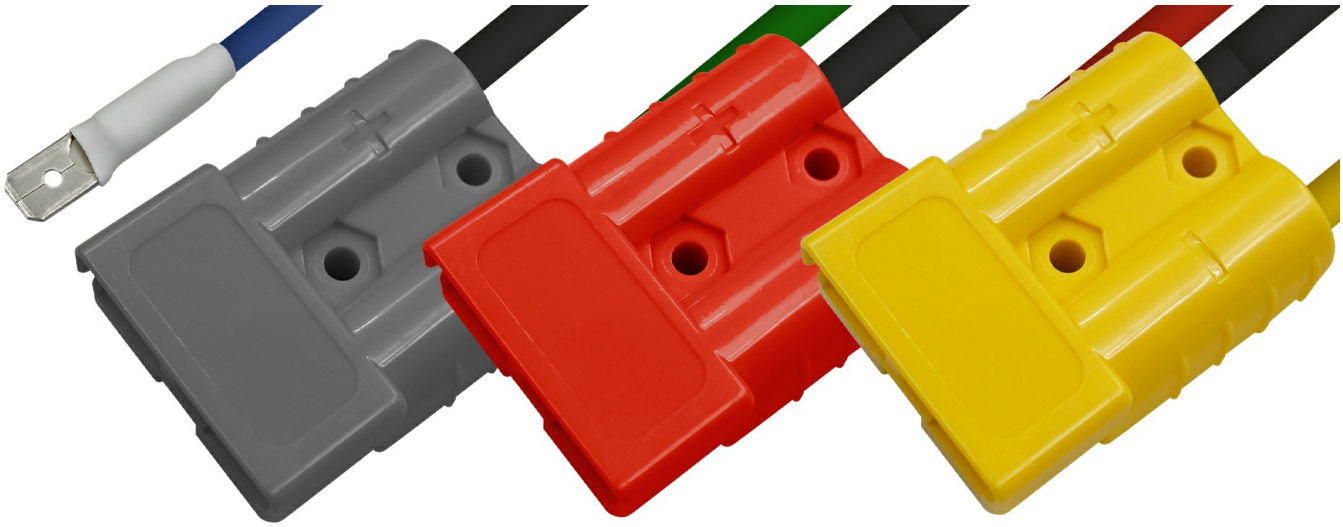
The device eliminates the need for manual control of the charging process, it recognizes by itself when to start and stop charging, providing full comfort and safety of use :

- **starts charging as soon as it detects a properly connected battery and the availability of a power source (alternator, photovoltaic panel, etc.).**,
- **stops the charging process automatically when the battery is fully charged, switching to the holding mode (FLOAT) or completely disconnecting the charging current.**

This way you don't have to manually control the charging cycle **–** the Multicharger independently **takes care of:**

- **avoiding overcharging,**
- **protecting the battery from damage,**
- **maximum energy efficiency and operational safety.**

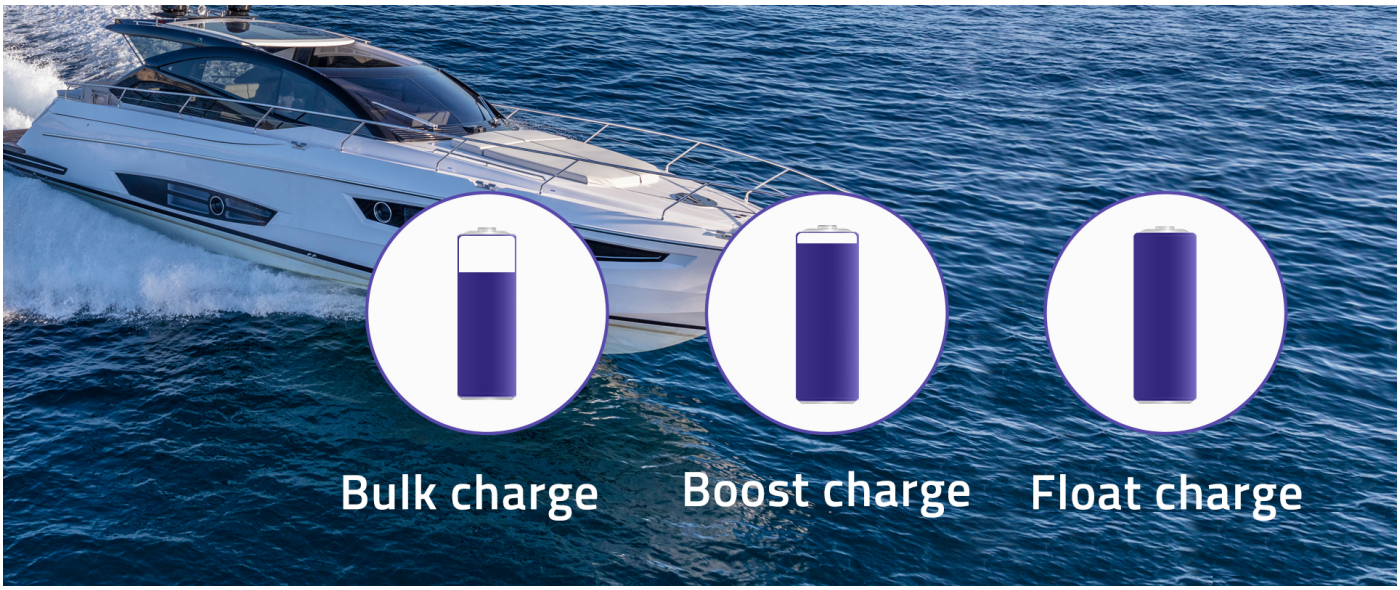
STABLE VOLTAGE, SAFE OPERATION, LONGER BATTERY LIFE



Anderson connectors **-** secure and fast connection
Connecting the battery to the Qoltec DC-DC 12V charger using an Anderson Connector **be made in accordance with the wire colors and markings on the device housing** . Here are the ground rules: **Battery** (red wire **-** "BAT+" and black wire **-** "BAT-"), **Photovoltaic panel (PV) –** connect to the solar connector (grey connector). Installed on the roof of the vehicle, it powers the charger with solar energy, which the device converts using MPPT technology, **Starter battery –** While driving, the engine generates energy, which goes through the charger to the on-board battery, **ACC wire (blue) –** Connects to the ignition switch or ignition source. When the ignition is turned on, it activates the charger and starts the charging process. **Fuse -** to protect the installation from overload and short circuit. **Anderson connectors make installation and removal easy and safe, with no risk of accidental disconnection or short circuit** .

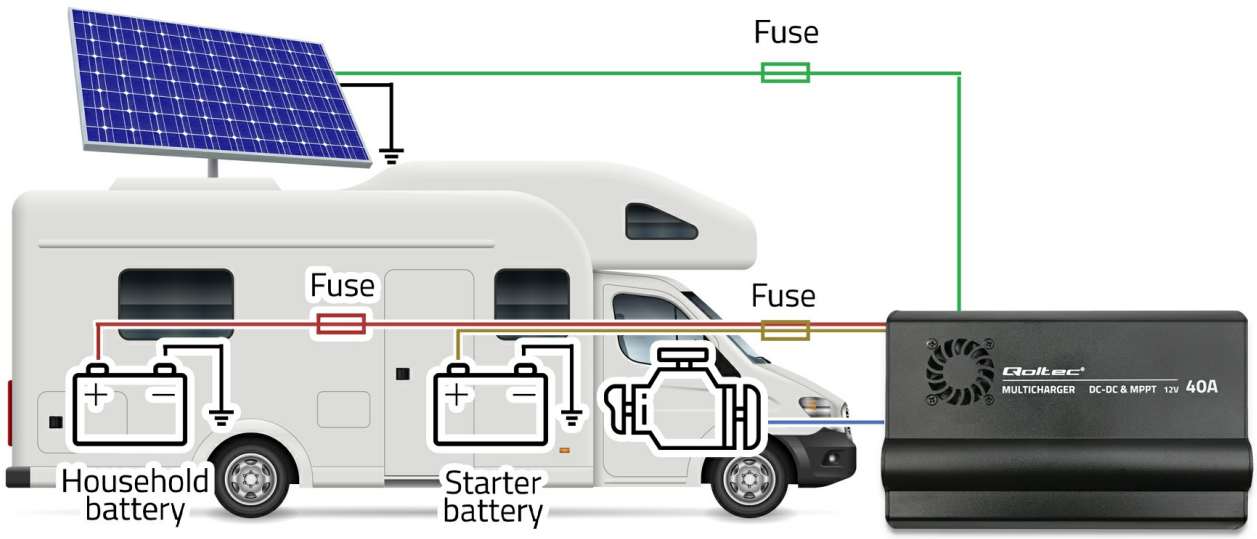


INTELLIGENT 3-STAGE CHARGING



Integrated with Intelligent 3-Step Charging Process for Optimal Performance of Your Battery Pack
The DC-DC charger will charge your starter battery using intelligent 3-stage charging consisting of : **The BULK** stage is the identification of the battery and its needs, charging up to 80% with a constant current, high voltage, **The BOOST** stage is the so-called absorption charging, it maintains the charging voltage between 14.1VDC and 14.8VDC, reducing the input current, **The FLOAT** stage is the last charging cycle 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 13.8 VDC, the charging current automatically drops to 0A when the battery is charged.

SAFETY IS OUR PRIORITY



Use of advanced security features
In designing the DC-DC chargers, we focused first and foremost on **safety of use**, Therefore, the product has been **equipped with comprehensive safety features**, of which : **Protection against reverse polarity**, **Short circuit protection**, **Protection against overheating**.

CONFIDENCE CONFIRMED BY A WARRANTY



Product comes with 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	12VDC-15.8V 0.2V (car generator)
Input Voltage Range (PV)	12V-30V 0.2V (MPPT)
Output voltage	Battery mode : GEL (14.2V 0.2V), AGM (14.8 0.2V), STD (14.4V 0.2V), LiFePO4 (14.6V 0.2V), CAL (15.2V 0.2V)
Maximum power of photovoltaic panel	620W
Maximum input current	50A
Maximum charging current	40A
Type of charging	DC-DC
Output current	40A 0.5A
Connector	3 x Anderson
Efficiency	97%
Cooling system	Fan
Display	NO
Protection	SCP - is short-circuit protection, OTP - is protection against overheating. Reverse polarity protection
Protection against inverse polarity	Yes
Cable length	None
Usage	LiFePO4 GEL AGM Calcium
Notices	Only 12V batteries should be used. Damage caused by connecting batteries with higher voltages will not be covered by the warranty. Cables are not included in the kit.
OTHER PARAMETERS	
Colour	Black
Material	Metal
Operating temperature	0°C ~ +45°C
Storage temperature	-20°C ~+45°C
Dimensions (D/L x W x H)	230 x 130 x 60mm
Package	Box
Package contents	1 x DC-DC charger 1 x Anderson connector kit (3 packs) 1 x User manual 1 x Warranty card
Package depth / length [mm]	205
Package width [mm]	295
Package height [mm]	68
Net weight [kg]	1.744
Gross weight [kg]	2.047
Certificate	CE
Warranty	24 month
EAN code	5901878519210