Qoltec Monolith DC-DC charger for LiFePO4 AGM 12V batteries | 40A | 500W

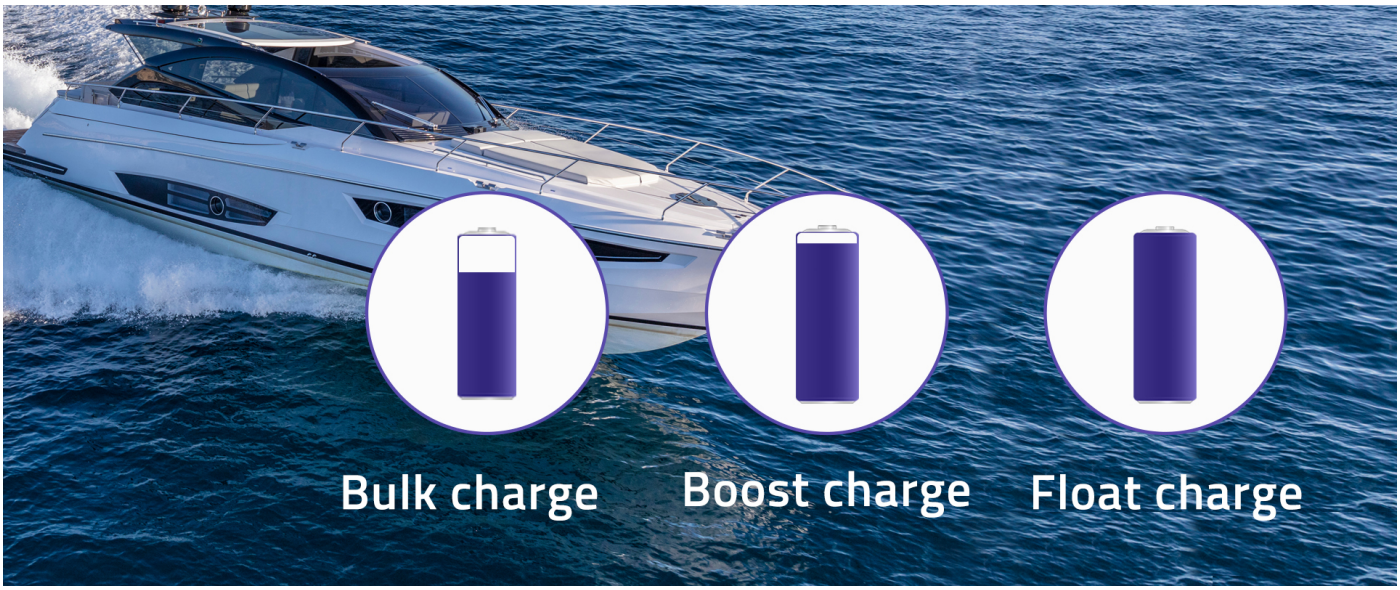
Product code: 52480

The intelligent DC-DC charger from the Monolith series is a guarantee of correct and stable charging of 12V batteries from the starter battery thanks to its 3-stage charging function. Compatible with AGM, FLD and Gel. It has a number of safety features designed to protect the charger and the batteries connected to it.

COMPATIBLE WITH MANY TYPES OF BATTERIES

Our Monolith charger designed to work without trouble with a wide range of different types of batteries including AGM, GEL, calcium, SLA, Li-ion, EFB and LiFePO4 providing them with a stable and safe power source. Ideal for use in 4-wheel drive vehicles, i.e. caravans and campers, trucks, other commercial vehicles, but will also be a good choice for boat and yacht owners.

INTELLIGENT 3-STAGE CHARGING



The Monolith 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.

HOW TO CONNECT THE BATTERY CORRECTLY?

To charge our battery, we need to correctly connect the D+ ignition cable to the DC-DC charger from the D+ input to the 12V source and select the correct battery type using the 5D button,which is located on the side of the charger. Once the correct battery type has been selected, the charger is ready to go. All we need to do is to start our starter battery, which is activated while driving. As soon as the 12V signal is received, the unit will switch on, the power indicator will light up green and the battery will start charging. We recommend using 18-16AWG copper cable.

SAFETY IS OUR PRIORITY

In designing the DC-DC chargers, we placed safety above all else, which is why the product is equipped with comprehensive protection features, including reverse polarity, overvoltage and overheating protection.
UVP protection - protects against under-voltage at the output,
SCP protection - is a short circuit protection,
OVP protection - it protects against too high output voltage,
OCP protection - is a protection against too high current on the line,
OTP protection - is protection against overheating.
Starter battery protection - the starter battery is **protected against over-discharge** with a D+ ignition cable (cable not included).
Home battery protection - to further strengthen the home battery's , it is possible to connect an LC cable (18-16AWG) that can automatically regulate the charging current (cable not included).

CONFIDENCE CONFIRMED BY A 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
Type of charging	DC-DC
Power	500W
Input voltage	12VDC
Output voltage	12VDC
Output current	40A
Efficiency	90%
Connector	M6 x 10mm
Application	LiFePO4 EFB Calcium AGM GEL Li-ion SLA
Cooling system	2 x fan
Protection	UVP - protects against under-voltage at the output, SCP - is short-circuit protection, OVP - is protection against excessively high output voltage, OTP - is protection against overheating.
Protection against inverse polarity	Yes
Operating temperature	-20°C ~ +50°C
Additional information	We recommend using 18-16AWG copper D+ cable (cable not included)
Attention	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.
Dimensions (D/L x W x H)	180 x 260 x 75 mm
Package	Box
Package contents	1 x DC-DC charger 1 x User manual
Package depth / length [mm]	220
Package width [mm]	300
Package height [mm]	110
Net weight [kg]	2.057
Gross weight [kg]	2.397
Certificate	CE
Warranty	24 month
EAN code	5901878524801