



DC-DC BATTERY CHARGER

YPOWER RANGE



New generation

Automatic and autonomous

High temperature performance

Smart casing

CAN-BUS interface

PRESENTATION

The brand new YPOWER 12-24V/30A battery charger has been designed to charge a 24V battery bank from a 12VDC power source with a smart 5-step charging curve.

Thanks to a charge regulation similar to a standard shore battery charger it matches all battery types : wet and sealed Lead, Calcium Lead, gel, AGM, Lithium, etc.

The most typical case of use is the 24V bow-thruster battery bank charge from the 12V onboard network.

However YPOWER 12-24V/30A charger can be used for any type of application thanks to its large scale of use, integrated protections and ergonomics.

INPUT/OUTPUT CHARACTERISTICS

Input voltage : 12VDC (from 10 to 16VDC)
 Output voltage : 24VDC (from 24 to 32VDC)
 Max current : 30A
 Isolation Input/Output : no as DV is common
 5-step charging curve : Boost, Absorption, Floating, Refresh & Reboost
 Battery type selection through DIP switches
 Efficiency : > 90%
 Ripple : < 1%



THERMAL CHARACTERISTICS

Operating temperature : from -10° à +60°C without derating
 Storage temperature : from -20° à +70°C
 Electric fan controlled in temperature and/or current



PROTECTIONS

- Output :
 - * integrated anti-return device to avoid battery discharge
 - * automatic current limitation
- Input and output :
 - * against polarity reversal and short-circuit by removable fuses
- Against abnormal overheating by cutting off the charger (automatic restart)
- PCB : water-repellent varnish (marine environment)

MECHANICAL CHARACTERISTICS

Input/output connection : an external threaded M8 rod
 Indicator : 2-coloured LED for charge status
 Casing : 4 x M5 external fixings for easy wall mounting
 Protection factor : IP22
 Dimensions : 236 x 180 x 96 mm
 Weight : 2.2 kg

OPTIONS

CAN-BUS interface for data transfer (please consult us)
 Temperature probe, compensation -36mV/C°, item code STP-NEW-2.8



STANDARDS

CE/EMC : EN61204-3D
 CE/Security : EN60335-2-29

Item code : YP012-24/30

