



DC-DC BATTERY CHARGERS

YPOWER RANGE



Convert, charge & boost

Wide I/O scale

Temperature performance

Silent

CAN-BUS interface

PRESENTATION

◆ YPOWER DC-DC chargers-converters have been designed to charge a 12, 24, 36 or 48V battery bank from a 12, 24, 36 or 48V network. The most typical case of use is the 24V bow-thruster battery bank charge from the 12V onboard network (model YPD12-24/30). They also allow a LiFePO4 battery to be recharged from a Lead battery connected to an alternator.

◆ Thanks to their large scale of input and output voltage, they can be configured as a simple converter or as a battery charger. In this case, the charging curve delivered is the same as the one of a smart charger :

- 5 steps
- all types of batteries (wet & sealed Lead, Calcium Lead, gel, AGM, Lithium, etc.)

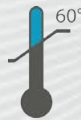
INPUT/OUTPUT CHARACTERISTICS

- Input voltage : 12 or 24 or 36 or 48VDC (from 10 to 64VDC)
- Output voltage : 12 or 24 or 36 or 48VDC
- Nominal power : from 570 to 860W (depending on model)
- Max. output current : from 10 to 60A at nominal voltage (depending on model)
- Isolation Input/Output : no as DV is common
- 5-step charging curve : Boost, Absorption, Floating, Refresh & Reboost
- Battery type selection through push-button or communication
- Efficiency : 96% typical
- Ripple : < 2% (at nominal conditions)
- Electronic limitation of the input current
- Remote control : serial CAN-BUS interface



THERMAL CHARACTERISTICS

- Operating temperature : from -20° to +60°C without derating
- Storage temperature : from -40° to +70°C
- Optional temperature probe : compensation -18mV/C° in 12V, -36mV/C° in 24V, -54mV/C° in 36V and -72mV/C° in 48V



PROTECTIONS

- PCB : water-repellent varnish (marine environment)
- ◆ Output :
 - * Integrated anti-return device to avoid battery discharge
 - * Protection against polarity reversal by removable fuses
- ◆ Input and output : current limitation and automatic power limitation for an ambient temperature > 60°C



MECHANICAL CHARACTERISTICS

- Dimensions (l x h x d) : 236 x 180 x 96 mm - Weight : 2.2kg
- Protection : IP22
- Input/output connection : with M6 terminals
- Indicator : 2 bicolour LEDs
- Casing : 4 x M5 external fixings for easy wall mounting
- Natural cooling (fanless)

STANDARDS

- CE/EMC : EN61204-3
- CE/Security : EN60335-2-29 - E Marking pending



silence



DC-DC CHARGERS-CONVERTERS

YPOWER RANGE

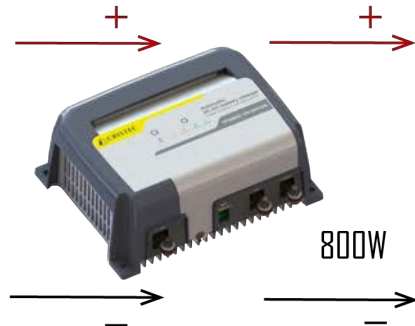


CONFIGURATION OF INSTALLATION

12, 24, 36 or 48V source
depending on model



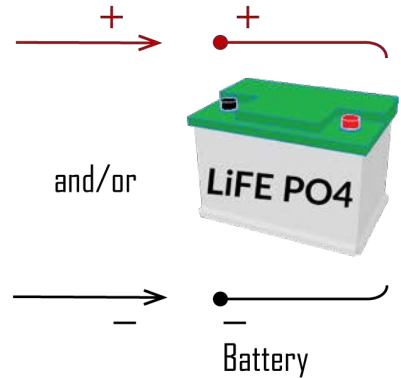
Charge or convert
Raise or lower



Communication
and/or
navigation
equipment

Operating on DC
power supply
and/or
battery charger

12, 24, 36 or 48V utilization
depending on model



COMPLETE RANGE

INPUT VOLTAGE	OUTPUT VOLTAGE (1)	NOMINAL CURRENT	ITEM CODE	INPUT VOLTAGE	OUTPUT VOLTAGE (1)	NOMINAL CURRENT	ITEM CODE
12VDC	12VDC	60A	YPO12-12/60	36VDC	12VDC	40A	YPO36-12/40
12VDC	24VDC	30A	YPO12-24/30	36VDC	24VDC	30A	YPO36-24/30
12VDC	36VDC	15A	YPO12-36/15	36VDC	36VDC	20A	YPO36-36/20
12VDC	48VDC	10A	YPO12-48/10	36VDC	48VDC	15A	YPO36-48/15
24VDC	12VDC	60A	YPO24-12/60	48VDC	12VDC	40A	YPO48-12/40
24VDC	24VDC	30A	YPO24-24/30	48VDC	24VDC	30A	YPO48-24/30
24VDC	36VDC	20A	YPO24-36/20	48VDC	36VDC	20A	YPO48-36/20
24VDC	48VDC	15A	YPO24-48/15	48VDC	48VDC	15A	YPO48-48/15

(1) in charger mode :
 14.4VDC - 28.8VDC - 39.2VDC - 57.6VDC in Boost (factory setting)
 13.8VDC - 27.6VDC - 41.4VDC - 52.2VDC in Floating (factory setting)
 Other selections available through internal push-button (i.e. stabilized power-supply)
 Specific request : please consult us

OPTIONS

Touch-screen remote display 2.5"
 Temperature probe 2.8m
 Temperature probe 5m
 Charger ON/OFF remote control

UNI-DISPLAY-R
 STP-UNI-2.8
 STP-UNI-5.0
 G-ON/OFF-R

