

12, 24V, 36 & 48V | From 10 to 60A

Battery chargers DC-DC YPOWER



Made in
France



3 years
warranty



Silent



Compact



No derating



Bluetooth



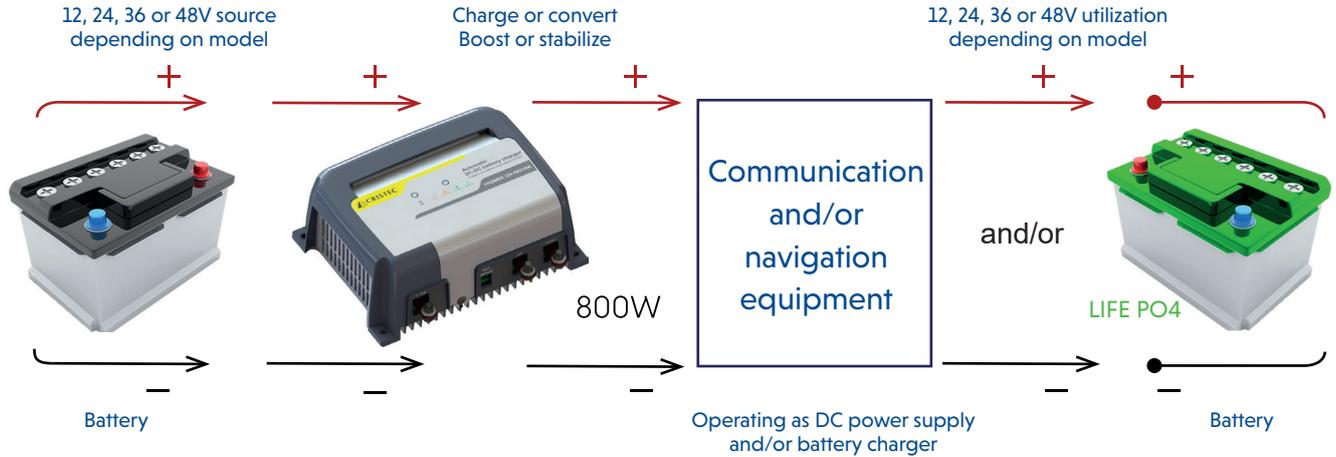
Lithium ready



CAN-BUS
Interface

Convert Charge Boost Stabilize

INSTALLATION CONFIGURATION



| 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 |
| | 24VDC | 30A | YPO12-24/30 | | 24VDC | 30A | YPO36-24/30 |
| | 36VDC | 15A | YPO12-36/15 | | 36VDC | 20A | YPO36-36/20 |
| | 48VDC | 10A | YPO12-48/10 | | 48VDC | 15A | YPO36-48/15 |
| 24VDC | 12VDC | 60A | YPO24-12/60 | 48VDC | 12VDC | 40A | YPO48-12/40 |
| | 24VDC | 30A | YPO24-24/30 | | 24VDC | 30A | YPO48-24/30 |
| | 36VDC | 20A | YPO24-36/20 | | 36VDC | 20A | YPO48-36/20 |
| | 48VDC | 15A | YPO24-48/15 | | 48VDC | 15A | YPO48-48/15 |
| | | | | | | 30A | YPO48-48/30 |

⁽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 2.4" UNI-DISPLAY-R
- Temperature probe 2.8m STP-UNI-2.8
- Temperature probe 5m STP-UNI-5.0
- Charger ON/OFF remote control G-ON/OFF-R



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 YPO12-24/30). 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 45VDC or from 10 to 64VDC)
- Output voltage : 12 or 24 or 36 or 48VDC
- Nominal power : from 570 to 860W
- Max. output current : from 10 to 60A at nominal voltage
- Isolation Input/Output : no as 0V 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
- Integrated 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
- ISO 7637