



DC-DC BATTERY CHARGERS

YPOWER RANGE



Convert and charge

Wide scale

Temperature performance

Silent

CAN-BUS interface

PRESENTATION

◆ **YPOWER** DC-DC chargers-converters have been designed to charge a 12 or 24V battery bank from a 12 or 24V network. The most typical case of use is the 24V bow-thruster battery bank charge from the 12V onboard network.

◆ Thanks to their large scale of input and output voltages, they can be configured as a simple converter or as a battery charger. In this case, the charging curve delivered is comparable to 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 24VDC (from 10 to 32VDC)
- Output voltage : 12 or 24VDC (from 0 to 32VDC)
- Nominal power : 800W
- Max. output current : 30 or 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%
- Ripple : < 1%
- 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 -36mV/C° in 24V and -18mV/C° in 12V



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
 - * Automatic power limitation for an ambient temperature > 60°C

MECHANICAL CHARACTERISTICS

- Input/output connection : on external threaded M8 rods
- 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
- ISO 7637

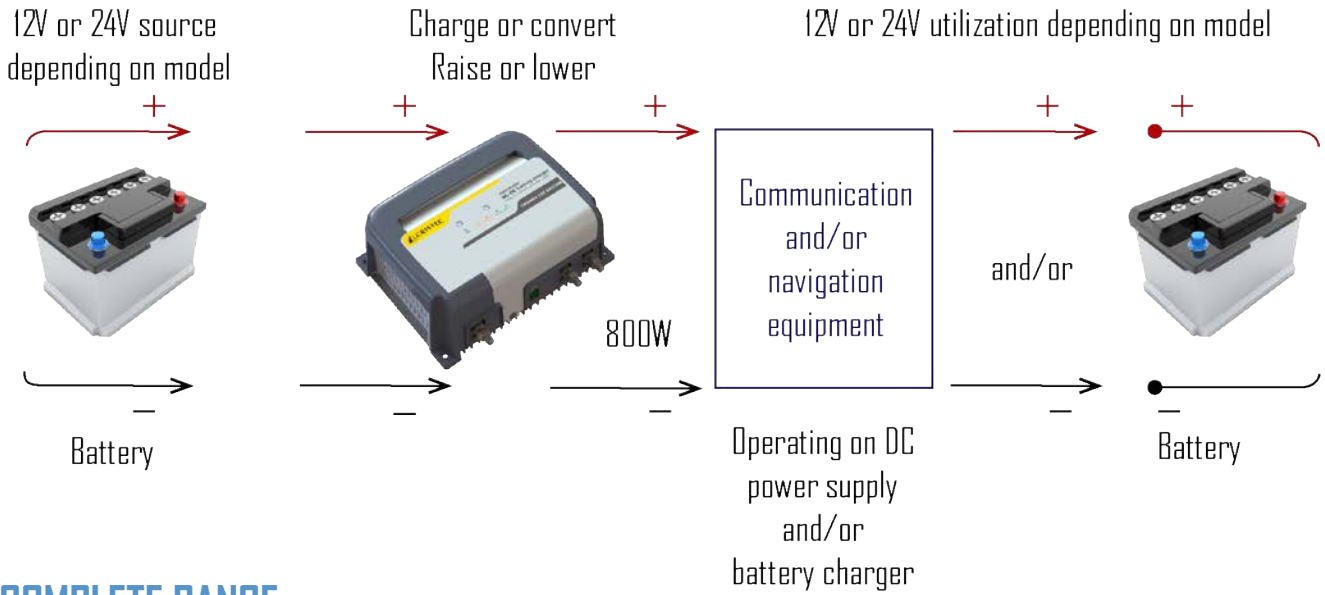


DC-DC CHARGERS-CONVERTERS

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CONFIGURATION OF INSTALLATION



COMPLETE RANGE

| INPUT VOLTAGE | OUTPUT VOLTAGE ⁽¹⁾ | NOMINAL CURRENT | ITEM CODE | DIMENSIONS (l x h x d) | PROTECTION | WEIGHT |
|---------------|-------------------------------|-----------------|-------------|------------------------|------------|--------|
| 12V | 12V | 60A | YPO12-12/60 | 236 x 180 x 96 mm | IP 22 | 2.2 Kg |
| 12V | 24V | 30A | YPO12-24/30 | | | |
| 24V | 24V | 30A | YPO24-24/30 | | | |
| 24V | 12V | 60A | YPO24-12/60 | | | |

⁽¹⁾ in charger mode :
 14.4VDC in Boost - 13.8VDC 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" | 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 |



We reserve the right to make modifications to the specification without prior notice. Please consult us. F-YPO-DC-02-C