



## DC-DC BATTERY CHARGERS

### YPOWER RANGE



Wide Input/Output scale

T<sup>0</sup> 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.)

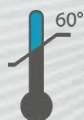
### INPUT/OUTPUT CHARACTERISTICS

- Input voltage : 12 or 24 or 36 or 48VDC (from 10 to 64VDC or from 10 to 45VDC according to models)
- 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



silence

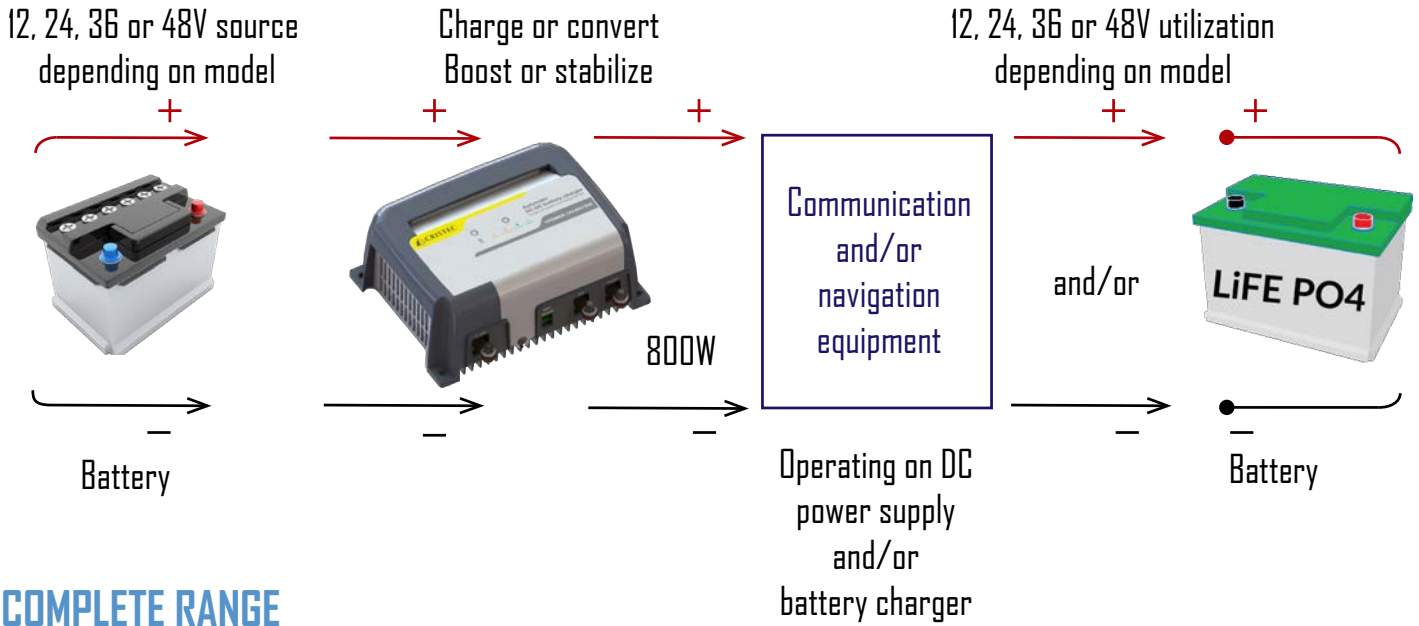


# DC-DC CHARGERS-CONVERTERS

## YPOWER RANGE



### CONFIGURATION OF INSTALLATION



### COMPLETE RANGE

INPUT VOLTAGE	OUTPUT VOLTAGE <sup>(1)</sup>	NOMINAL CURRENT	ITEM CODE	INPUT VOLTAGE	OUTPUT VOLTAGE <sup>(1)</sup>	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

<sup>(1)</sup> 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" | 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    |

