



SOLAR CHARGE REGULATORS

YPOWER RANGE



MPPT technology

High power

12 & 24V

Silent

CAN-BUS interface

PRESENTATION

- ◆ **YPOWER** fanless solar charge regulators are designed for installations in 12 or 24V, medium & high power.
- ◆ **MPPT** technology (Maximum Power Point Tracking) increases the efficiency of solar panels enabling to recharge batteries faster.
- ◆ Thanks to a charge regulation similar to a smart battery charger, it matches all battery types : wet & sealed Lead, Calcium Lead, gel, AGM, Lithium, etc.
- ◆ Input voltage detection is not automatic to avoid any major malfunction in the event of a faulty output battery.

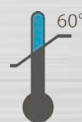
INPUT/OUTPUT CHARACTERISTICS

- Input voltage : 0 to 45VDC
- Output voltage : 12 or 24VDC (from 0 to 32VDC)
- Nominal power : 800W
- Output current : 60A max. in 12v, 30A max. in 24V
- 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%
- Ripple : < 1%
- 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)
- Protection factor : IP22
- Dimensions : 236 x 180 x 96 mm
- Weight : 2.2 kg



OPTIONS

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



STANDARDS

- CE/EMC : EN61204-3
- CE/Security : EN60335-2-29
- ISO 7637

Item codes : YPO12-60/MPPT
YPO24-30/MPPT

