



SOLAR CHARGE REGULATORS

YPOWER RANGE



MPPT technology

Silent

High power

12 & 24V / 800W

CAN-BUS integrated

PRESENTATION

- ◆ **YPOWER** fanless solar charge regulators are designed for installations in 12 or 24V, medium & high power (up to 800W with solar panels in parallel).
- ◆ **MPPT** technology (**M**aximum **P**ower **P**oint **T**racking) optimizes 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, LiFePO4, etc.
- ◆ Input voltage detection is not automatic to avoid any major malfunction in the event of a faulty output battery.

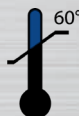
INPUT/OUTPUT CHARACTERISTICS

- Input voltage : 10 to 45VDC or 10 to 80VDC according to models
- Output voltage : 12 or 24VDC (from 0 to 32VDC)
- Nominal power : 800W
- Output current : 20 to 60A according to models
- Isolation Input/Output : no as 0V is common
- 5-step charging curve : Boost, Absorption, Floating, Refresh & Reboost
- Battery type selection through push-button or CAN-BUS
- Efficiency : >96%
- Ripple : < 1%
- Remote control : serial CAN-BUS interface



THERMAL CHARACTERISTICS

- Operating temperature : from -20° to +60°C without derating
- Optional temperature probe : compensation -36mV/C° in 24V and -18mV/C° in 12V



PROTECTIONS

- PCB : water-repellent varnish
- ◆ Output :
 - * Integrated anti-return device
 - * 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 : with M6 terminals
- Indicator : 2 bicolour LEDs
- Casing : 4 x M5 external fixings for easy wall mounting
- Natural convection (fanless)
- Protection factor : IP22
- Weight - dimensions : 2.2kg - 236 x 180 x 96 mm



silence

OPTIONS

- Touch-screen remote display 2.5" - UNI-DISPLAY-R
- Temperature probe 2.8 or 5m - STP-UNI-2.8 ou STP-UNI-5.0
- Charger ON/OFF remote control - G-ON/OFF-R
- Bluetooth Low Consumption (pending)

STANDARDS

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

ITEM CODES

- YP045-12-60/MPPT
- YP045-24-30/MPPT
- YP080-12-40/MPPT
- YP080-24-25/MPPT

