

MPPT Charge Controller Smart solar

Optimization of solar panels efficiency

SMART SOLAR charge controllers are conceived to maximise solar panels efficiency, in high performance applications or when solar generation is limited. Especially in case of low-light conditions, MPPT controller will improve energy harvest by up to 30% compared to PWM charge controllers.

Integrated Bluetooth

Also, thanks to the integrated Bluetooth, it is possible to set up, monitor and update the controller with a smartphone.

Maximising the battery lifespan

The Battery Life algorithm monitors continuously the state of charge of the battery and modulates the load disconnect level maximising the battery lifespan.



FEATURES

- **Charge controller:**
 - This controller manages the battery charge by the solar power supply.
 - This controller has a capacity up to 290 W photovoltaic (PV) power in 12 or 24 V.
- **Discharge controller:**
 - This controller has the function of supervise the discharge of the battery, regulating in a smart way the discharge, which maximize the lifetime of the battery.
- **Battery display:**
 - The App and Bluetooth connection allows the monitoring of every parameter of the system:
 - Battery voltage (V).
 - Charge and discharge current (A).
 - Amp hour meter (Ah).
 - Battery charge status (%).
 - Historical data.
- **Overvoltages protection:**
 - Protection over solar module inputs to protect the installation against transient overvoltages due to lighting storms.

SMART SOLAR

MPPT Smart Solar Controller

MPPT SMART SOLAR CONTROLLER	MPPT 75/10	MPPT 75/15	MPPT 100/15	MPPT 100/20
Battery Voltage (V)	Automatic selection 12/24V			
Rated Load Current (A)	10 A	15 A	15 A	20 A
Nominal PV power @ 12 V	145 W	220 W	220 W	290 W
Nominal PV power @ 24 V	290 W	440 W	440 W	580 W
Max. PV open circuit voltage	75 V		100 V	
Peak efficiency	98%			
Self-consumption	10 mA			
Charge voltage “Absorption”	14,4V / 28,8V (adjustable)			
Charge voltage “Floating”	13,8V / 27,6V (adjustable)			
Charge algorithm	multi-stage adaptive			
Protection	"Reverse polarity of the battery (fuse) / Output short circuit / Over temperature"			
Operating temperature	De -30 a +60 °C (potencia nominal completa hasta los 40°C)			
Weight	0,5 kg		0,6 kg	0,65 kg
Dimensions (h x w x d)	100 x 113 x 40 mm		100 x 113 x 50 mm	100 x 113 x 60 mm

APP



! Specifications subject to change without previous notice.



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