



FEATURES:

- Maximum power point tracker (MPPT tracker)
- Voltage and current regulation
- PWM control
- Current compensation load disconnection
- Automatic load reconnection
- Temperature compensation
- Monthly maintenance charge

ELECTRONIC PROTECTIONS:

- Over charge protection
- Deep discharge protection
- Reverse polarity protection of load, module and battery
- Reverse polarity protection by internal fuse
- Automatic electronic fuse
- Short circuit protection at module input

DISPLAYS :

- Multifunction LED display
- Multi-coloured LED
- 5 LEDs show operating states for operation, state of charge, fault messages

	PARAMETER	MODEL MPPT-2010	
SYSTEM	TYPE	12V BATTERY SYSTEM	24V BATTERY SYSTEM
	BATTERY TYPE	MPPT	
NOMINAL BATTERY SYSTEM VOLTAGE		Factory preset for Lead Acid - Liquid Type (Flooded)	
		12V or 24V Auto Detection	
NOMINAL OUTPUT POWER		250W	500W
	SELF CONSUMPTION	10mA	10mA
MAXIMUM EFFICIENCY		> 98%	> 98%
	OPENCIRCUIT VOLTAGE, Voc (at min. operating temp)	17V to 100V	34V to 100V
INPUT SIDE (Solar Panel/Array)	MAXIMUM POWER POINT (MPP) VOLTAGE, Vmp	>15V to <100V	>30V to <100V
	MAXIMUM SHORT CIRCUIT CURRENT, Isc	18A	18A
CHARGING CHARACTERISTICS	CHARGING CURRENT	20A	20A
	BOOST CHARGE VOLTAGE	14.4VDC	28.8VDC
	END OF CHARGE VOLTAGE	13.9VDC	27.8VDC
	EQUALIZATION VOLTAGE	14.7 VDC	29.4 VDC
INTERNAL TEMPERATURE COMPENSATION	Voltage Coefficient of Temperature: -	- 4mV/°K/Cell	- 24mV/°K
			- 48mV/°K
LOAD CONTROL	LOAD CURRENT	10A	10A
	LOW VOLTAGE DISCONNECT (LVD)	11.5V	23V
	LOW VOLTAGE RECONNECT (LVR)	12.5V	25V
MONITORING AND DISPLAY	NIGHT LIGHT FUNCTION	Factory preset in OFF condition	Factory preset in OFF condition
	DISPLAY TYPE	5 Multicolor LEDs	
OPERATING PARAMETERS DISPLAYED		Normal Operation, State of Charge, Load Status and Faults	
	TYPE AND WIRE SIZE	Terminal with 4mm dia. tubular hole and setscrew. Will accommodate: Conductor - Stranded wire: 16mm ² / AWG#6 Conductor - Solid wire: 25mm ² / AWG #4	
INPUT/OUTPUT CONNECTIONS		Overload/short circuit PV & Load sides; Over temperature (measured inside the microcontroller); Over charge & deep discharge; Over voltage at PV input;	
	PROTECTIONS	Reverse polarity of PV panel; Reverse Battery and Load polarity; Reverse current protection at night.	
SAFETY COMPLIANCE	SAFETY	CE marked - Low Voltage Directive 2006/95/EG	
	ELECTROMAGNETIC COMPATIBILITY	CE marked - 2004/108/EG	
EUROPEAN STANDARD		EN60730-1; EN60730-2-11	
	ROHS	Compliant	
QUALITY		ISO-9001; ISO-14001	
	OPERATING AMBIENT TEMPERATURE	-25°C to +40°C / -13°F to +104°F	
ENVIRONMENTAL	INGRESS PROTECTION	IP 32	
	DIMENSIONS (W x D x H)	187 x 153 x 68 mm / 7.36 x 6.02 x 2.68 in	
GENERAL		Approx. 900 gm. / 2 lb.	
	WEIGHT		

