









Solar Controller / Battery Charger **MODEL: RS-PWM30WP**

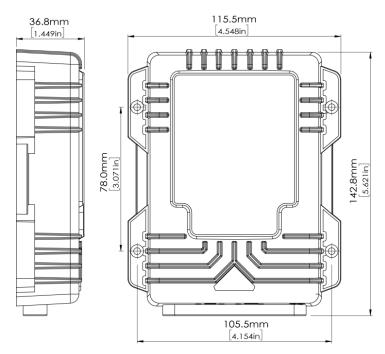
FEATURES AND ADVANTAGES

- PWM technology, switching control by MOSFET
- Common Positive Grounding connection
- High efficiency and low power consumption
- Battery type setting and battery condition indication
- Smart charging control
- Charging time management
- LED indication for the battery condition and charging statues
- Digital display charging parameters and battery settings
- Automatically active to Lithium battery against BMS protection
- Thermal protection
- Over voltage protection, Short circuit protection, Reverse polarity protection
- No sparks
- Waterproof
- Solid-duty cables
- Corrosion-resistant terminals and connectors.
- Conformal coating supplied to the inside board against moisture
- Includes a port for external battery temperature sensor (BTS optional).
- Suitable for most of the rechargeable Lead acid battery, including Flooded (WET), AGM, GEL, Calcium battery and Lithium batteries.
- Designed according to CE standard, EMC, FCC compliance.



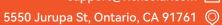
MOUNTING THE DEVICE

The quickest and easiest way to mount the unit is to use the four plastic spacers and self-tapping screws supplied and mount the unit to a flat surface.









SPECIFICATION

ELECTRICAL PARAMETERS	Rated Solar Panel Amps	Max. 30/40A
	Normal Input Solar Cell Array Voltage	15-22 VDC
	Max. Solar Cell Array Voltage (Output Has no Load)	Max. 25 VDC
	The Controller Lowest Operating Voltage at Solar or Battery Side	8 VDC
	Standby Current Consumption at Night	5 mA
	Maximum Voltage Drop-Solar Panel to Battery	0.25 VDC
CHARGING CHARACTERISTICS	Minimum Battery Starts Charging Voltage	3 VDC
	Soft Start Charging Voltage	3-10 ±0.2 VDC
	Soft Start Charging Current (50% PWM Duty)	Up to 15/20 AMP
	Bulk Charge	By the max. tated current
	Absorption Charging Voltage at 25°C	
	- Gel Type Battery	14.1 ±0.2 VDC
	- AGM Type Battery (Default Setting)	14.4 ±0.2 VDC
	- WET Type Battery	14.7 ±0.2 VDC
	- Calcium Type Battery	14.9 ±0.2 VDC
	- LTO Battery	14.0 ±0.2 VDC
	- LFP Battery	14.4 ±0.2 VDC
	Absorption Transits to Equalizing or Float Condition:	14.4 ±0.2 VDC
	- Charging Current Drops to	1.5 ±0.1 AMP
	- or Absorption Charging Timer Timed out	4h
		411
	Equalization Charging Active (Only for WET or Calcium Battery)	10 +0 2
	- Battery Voltage Discharged to Less Than	10 ±0.2
	- Automatic Equalizing Charging Periodical	28 Day
	Equalization Charging Voltage at 25°C	15.5 ±0.2 VDC
	Equalization Charging Timer Timed out	2h
	Float Voltage (GEL, WET, Calcium, AGM battery) at 25°C	13.6 ±0.2 VDC
	Restart Voltage for LTO Battery	13.2 ±0.2 VDC
	Restart Voltage for LFP Battery	13.4 ±0.2 VDC
	Voltage Control Accuracy	±0.1 %
	Battery Temperature Compensation Coefficient	-24 mV/*C
PROTECTION	Temperature Compensation Range	-20~+50°C
PROTECTION	Against Reverse Polarity or Short Circuit at Panel or Battery	
	No Reverse Current From Battery to Solar at Night	/
EL FOTDICAL DADTO	Over Temperature Protection During Charging	65°C
ELECTRICAL PARTS	Input Output Terminal	M5 terminals
PHYSICAL PARAMETERS	Controller Material	Plastic, Standard ABS
	Power Terminal Maximum Stranded Wire Size	#10 AWG stranded- 5 mm
	Power Terminal Torque	Up to 17 in-lb (0.2n-m)
	Mounting	Vertical wall mounting
	IP Grade	IP65
	Net Weight	Approx. 300g
ENVIRONMENTAL CHARACTERISTICS	Operating Temperature	-25 ~ 50°C / -13 ~ 122 °F
	Storage Temperature	-40 ~ 85°C / -40 ~ 185 °F
	Operating Humidity Range	100% no condensation