



# 30 Amp Digital Solar Controller

➔ INCREASES BATTERY LIFE BY PREVENTING OVERCHARGING



## Provides Superior Battery Protection

A Solar Controller is an essential component of your photovoltaic (PV) system. The Controller maintains the life of the battery by protecting it from overcharging. When your battery has reached a 100% state of charge, the Controller prevents overcharging by limiting the current flowing into the batteries from your solar array.

The GP-PWM-30 is a 12 volt flush mounted photovoltaic (PV) charge controller rated for a continuous solar current input of 30 amps and is capable of dual bank charging.

- Regulates current flow from your solar modules to your batteries
- Temperature compensated pulse width modulation (PWM) charging
- 3 Battery charging profiles: Sealed/Gel, AGM and Flooded
- 4 stage charging: Bulk, Absorption, Float and Equalize
- Maximum Power Boost Technology™ for manual bulk charge at any stage of the charge cycle
- Dual-bank battery charging
- On-off control for the following Go Power! Inverters: GP-SW1000, GP-HS-1500, GP-SW2000, GP-SW3000
- Back lit LCD screen displays charging current, battery voltage and battery state of charge
- Built-in USB charge port
- Heavy-duty terminals for low resistance connections
- Suitable for 12V solar systems up to 488 watts
- 5 year warranty

### SPECIFICATIONS

Nominal System Voltage	12V
Max Solar Array Current	30A
Battery Voltage Range	6V -- 15.5V
Max. Solar panel input voltage	28V
Operating Consumption	6mA
Display Consumption	10mA
Temp. Compensation	-13mV/°F / - 24mV/°C
Operating Temperature	- 40 to 185°F / - 40 to 85°C
Humidity	99% N.C.
Dimensions (H x W x D):	4.25 x 7.48 x 1.38 in; 108 x 190 x 35 mm
Weight	10.6 oz; 300 g;
Maximum Wire Gauge:	#4 AWG
Warranty	5 years
Protection	Battery Reverse Polarity, Solar Array Reverse Polarity, Over temperature, Over Current

Charge voltages shown are at 77°F / 25°C. The total rated Maximum Power Current (Imp) of the PV input should not exceed 30 amps.

BATTERY CHARGING PROFILE	SEALED/GEL	AGM	FLOODED
Bulk Charge Voltage Set Point	14.1V	14.4V	14.4V
Absorption Charge Voltage (30 min / day)	14.1V	14.4V	14.4V
Max. Power Boost Charge Voltage: Automatic (2h if V < 12.3V)	14.1V	14.4V	14.4V
Max. Power Boost Charge Voltage: Manual (2h if activated)	14.1V	14.4V	14.4V
Float Charge Voltage	13.7V	13.7V	13.7V
Equalize Charge Voltage (2h / 28 days or after V < 12.1V)	Disabled	Disabled	14.9V

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