



# 10 AMP SQ DIGITAL SOLAR CONTROLLER

INCREASES BATTERY LIFE BY PREVENTING OVERCHARGING

## ECONOMICAL 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-10-SQ is a 12 volt recess-mounted photovoltaic (PV) charge controller rated for a continuous solar current input of 10 amps and is capable of dual bank charging.



## FEATURES:

- Regulates current flow from your solar modules to your batteries
- Temperature compensated pulse width modulation (PWM) charging
- 4 Battery charging profiles: Sealed/Gel, AGM, Flooded, LiFePO4 (lithium)
- 4 stage charging: Bulk, Absorption, Float and Equalize
- Back lit LCD screen displays charging current, battery voltage and battery state of charge
- Suitable for 12V solar systems up to 10 amps
- 2 year warranty

## SPECIFICATIONS

Nominal System Voltage	12V
Max Solar Array Current	10A
Battery Voltage Range	6V -- 15.5V
Max. Solar panel input voltage	25V
Temp. Compensation	-24mV/°F / cell*K
Operating Temperature	- 13 to 122°F / - 20 to 50°C
Humidity	100% N.C.
Dimensions (H x W x D):	4.02 x 5.12 x 1.06 in; 102 x 130 x 27 mm
Weight	5.34 oz; 151 g;
Maximum Wire Gauge:	#6 AWG
Warranty	2 year
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	LIFEPO4
Bulk Charge Voltage Set Point	14.1V	14.4V	14.7V	14.4V
Absorption Charge Voltage (1-2 hr / day)	14.1V	14.4V	14.4V	14.4V
Float Charge Voltage	13V	13V	13V	14.0V
Equalize Charge Voltage (2h / 28 days or after V < 12.1V)	Disabled	Disabled	15V	Disabled

Specifications may be subject to change. Product may not be exactly as shown. Specifications subject to local environmental conditions.