



# 10 Amp Flush-Mounted 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-10-FM is a 12 volt flush mounted photovoltaic (PV) charge controller rated for a continuous solar current input of 10 amps.

- 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
- Automatic Maximum Power Boost Technology™
- Back lit LCD digital screen displays charging current, battery voltage and battery state of charge, and hours since last reset
- Built-in USB charge port
- Heavy-duty terminals for low resistance connections
- Suitable for 12V solar systems up to 170 watts, or 10 amps
- 5 year warranty

### SPECIFICATIONS

Nominal System Voltage	12V
Max Solar Array Current	10A
Battery Voltage Range	6V – 15.5V
Max. Solar panel input voltage	28V
Operating Consumption	6mA
Display Consumption	15mA
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):	5.87 x 3.86 x 1.26 in; 149 x 98 x 32 mm
Weight	9.2 oz; 260 grams
Maximum Wire Gauge:	#4 AWG
Warranty	5 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 10 amps.

BATTERY SETTINGS	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
<i>Automatic boost charge applied for 2hr if battery voltage drops below 12.3V</i>	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

### AUTHORIZED DEALER:

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