



10 AMP SINGLE BANK 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-SB is a 12 volt flush-mounted, single-bank, photo-voltaic (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
- 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
- Built-in USB charge port
- Heavy-duty terminals for low resistance connections
- Suitable for 12V solar systems up to 200 watts or 10 amps
- **5 year warranty**



GP-PWM-10-SB

SPECIFICATIONS	
Nominal System Voltage	12V
Max Solar Array Current	10A
Battery Voltage Range	6V -- 16V
Max. Solar panel input voltage	28V
Max. Battery Charge Current	37.5A
Display Consumption	≤15mA
Temp. Compensation	-25mV/K
Operating Temperature	-40 to 60°C / -40 to 140°F
Humidity	99% N.C.
Dimensions (H x W x D):	3.28 x 5.24 x 0.29 in; 83 x 133 x 7.50 mm
Weight	5.34 oz; 151 g
Maximum Wire Gauge:	#8 AWG/10 mm ²
Warranty	5 years
Protection	Reverse Polarity on Battery and Solar terminals - Short-Circuit on Battery and Solar terminals - Reverse Current from Battery to Solar Terminals - Over Voltage on Battery and Solar terminals up to 50V - Over Current - Over Temperature

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	14.4V	14.4V
Absorption Charge Voltage (30 min / day)	14.1V	14.4V	14.4V	14.4V
Float Charge Voltage	13V	13V	13V	14V
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.