

SPECIFICATIONS

Nominal System Voltage	12V
Nominal Charge Current	10A
Battery Voltage Range	6V -- 16Vdc
Max Battery Charge Current	12.5 A
Max Solar Power	200W
Display Consumption	15mA
Temp. Compensation	- 25mV/°C
Operating Temperature	- 40 to 60°C / - 40 to 140°F
Humidity	99% N.C.
Dimensions (H x W x D):	4.02 x 5.2 x 1.26 in; 102 x 132 x 32 mm
Weight	260 g / 9.2 oz
Maximum Wire Gauge:	#8 AWG/10 mm ²
Warranty	5 years
Protection	Battery/Solar Reverse Polarity, Battery/Solar Short Circuit, Battery/Solar Reverse Current, Battery/Solar Over voltage up to 50V, Over temperature, Over Current

WARNINGS:

	Disconnect all power sources	Electricity can be very dangerous. Installation should be performed only by licensed electrician or qualified personnel.
	Battery and wiring safety	Observe all safety precautions of the battery manufacturer when handling or working around batteries. When charging, batteries produce hydrogen gas, which is highly explosive.
	Wiring connections	Ensure all connections are tight and secure. Loose connections may generate sparks and heat. Be sure to check connections one week after installation to ensure they are still tight.
	Work safety	Wear protective eyewear and appropriate clothing during installation. Use extreme caution when working with electricity and when handling and working around batteries.
	Observe correct polarity	Reverse polarity of the battery terminals and array will cause the controller to show warning LEDs. The controller will not function unless battery terminals are connected to a battery with proper polarity. Failure to correct these faults could damage the controller.
	Do not exceed the GP-MPPT-PRO-40/60 max voltage ratings	The voltage rating of the solar system is the sum of the Open Circuit Voltage (Voc) of the solar PV panels in series. The resulting system Voc voltage including temperature effects is not to exceed 150V. If your solar system exceeds these ratings, contact your dealer for a suitable controller alternative. PV voltage increases in cold weather. Refer to section Error! Reference source not found.



GP-SB-PWM-10 DUAL BANK SOLAR CONTROLLER

Quick Start Guide



NO.	DESCRIPTION	NO.	DESCRIPTION
1	Scroll/Menu Selectors	4	Value Indicators
2	Icons Indicator	5	Value Units
3	Parameters Identifiers	6	Battery Type Indicator

Find tech tips, manuals and support at gopowersolar.com

INSTALLATION

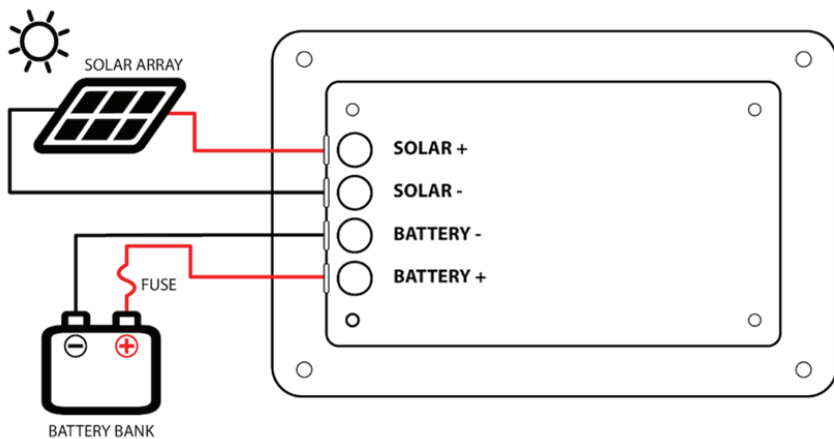
TOOLS

- Flathead Screwdriver (for wire terminals)
- Philips Screwdriver (for mounting screws)

INSTALLATION STEPS:

Install your solar array, and cover with opaque material until all wiring is complete. Wiring should not exceed 25ft from the solar panels to the battery.

Wire the GP-SB-PWM-10 according to the wiring diagram below. Be sure to torque all screws based on the wire gauge after installation, as well as after 30-days.



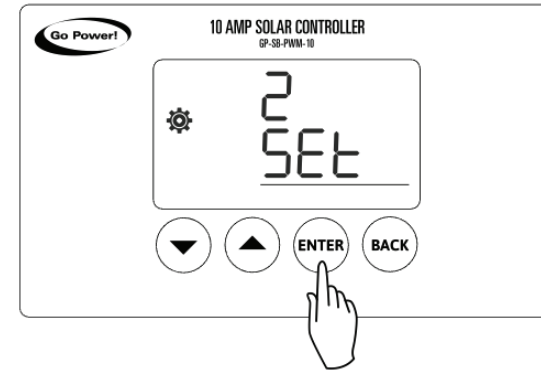
The GP-SB-PWM-10 is designed to be mounted flush against a wall, out of the way but easily visible.

The GP-SB-PWM-10 should be:

- Mounted as close to the battery bank as possible
- Mounted on a vertical surface to optimize cooling of the unit
- Indoors, protected from the weather

ACCESSING SETTINGS

The GP-SB-PWM-10 includes an LCD of FSTN type with 4 mechanical buttons that act as navigation keys to control the display. The GP-SB-PWM-10 settings can be accessed by entering menu number 2 as shown below.



VIEWING CONTROLLER DISPLAY

Three menus are implemented in the display: status, settings, and history. At power up, the controller turns on within the status menu. The different menus can then be accessed by pressing the Enter key as shown below.

