

SPECIFICATIONS

Nominal System Voltage	12V
Nominal Charge Current	30A
Battery Voltage Range	6V -- 16Vdc
Max Battery Charge Current	30A
Max Solar Power	600W
Display Consumption	15mA
Temp. Compensation	- 25mV/°C
Operating Temperature	- 40 to 140°F / - 40 to 60°C
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	9.2 oz / 260 g
Maximum Wire Gauge:	#8 AWG/10 mm ²
Warranty	2 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:



Electricity can be very dangerous. Installation must be performed only by licensed electrician or qualified personnel.



Observe all safety precautions of the battery manufacturer when handling or working around batteries. When charging, some batteries may produce hydrogen gas, which is highly explosive.



Ensure all connections are tight and secure to the specifications listed in section 6. Loose connections may generate sparks and heat. Be sure to check connections one week after installation to ensure they are still tight.



Wear protective eye wear and appropriate clothing during installation. Use extreme caution when working with electricity and when handling and working around batteries. Use properly insulated tools only



Reverse polarity of the battery terminals will cause the controller to give a warning tone. Reverse connection of the panel(s) will not cause an alarm but the controller will not function. Failure to correct this fault could damage the controller



The maximum voltage of the array is the sum of the PV module-rated open circuit voltage of parallel connected voltage is not to exceed 28V. If your solar system exceeds this value, contact your dealer for a suitable controller alternative.



GP-SB-ECO-PWM-30 SINGLE BANK ECO SOLAR CONTROLLER Quick Start Guide



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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

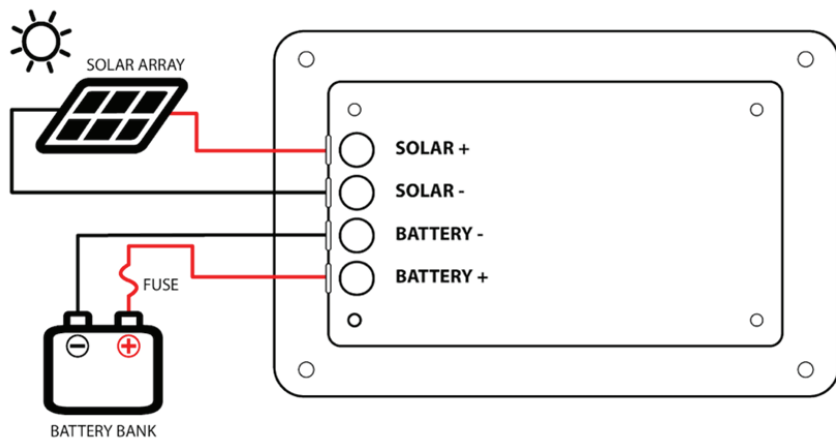
TOOLS

- 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-ECO-PWM-30 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.



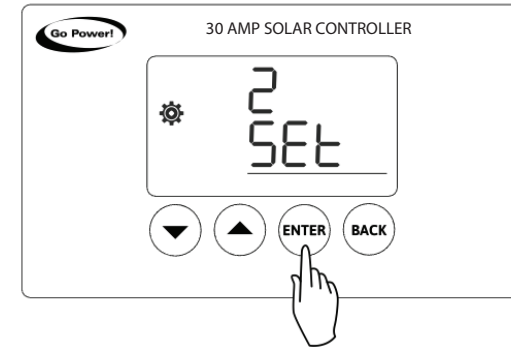
The GP-SB-ECO-PWM-30 is designed to be mounted flush against a wall, out of the way but easily visible.

The GP-SB-ECO-PWM-30 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-ECO-PWM-30 includes an LCD of FSTN type with 4 mechanical buttons that act as navigation keys to control the display. The GP-SB-ECO-PWM-30 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.

