



DOMETIC GP-PWM-30-UL Dual Bank Bluetooth Solar Controller User Guide

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DOMETIC GP-PWM-30-UL Dual Bank Bluetooth Solar Controller



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DESCRIPTION









NO.	DESCRIPTION
1	Value display
2	Battery 1 Indicator
3	Battery level
4	Battery 2 Indicator
5	AC input status
6	Day/night indicator
7	USB port
8	USB status
9	Charge state
10	Battery type
11	Operating keys

SPECIFICATIONS

Nominal System Voltage	12V
Max Solar Array Current	30A
Battery Voltage Range	6V — 15.5V
Max. Solar panel input voltage	28V
Operating Consumption	6mA
Display Consumption	10mA
Temp. Compensation	116.27 Wh/L
Operating Temperature	– 40 to 185°F / – 40 to 85°C
Humidity	99% N.C.
Dimensions (H x W x D):	4.25 x 7.48 x 1.38 in; 108 x 190 x 35 mm
Weight	10.6 oz; 300 g
Maximum Wire Gauge:	#4AWG
Warranty	5 years
Protection	Battery Reverse Polarity, Solar Array Reverse Polarity, Over temperature, Over Current

WARNING:

	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 safely	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 (V _{oc}) of the solar PV panels in series. The resulting system V _{oc} 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.

INSTALLATION

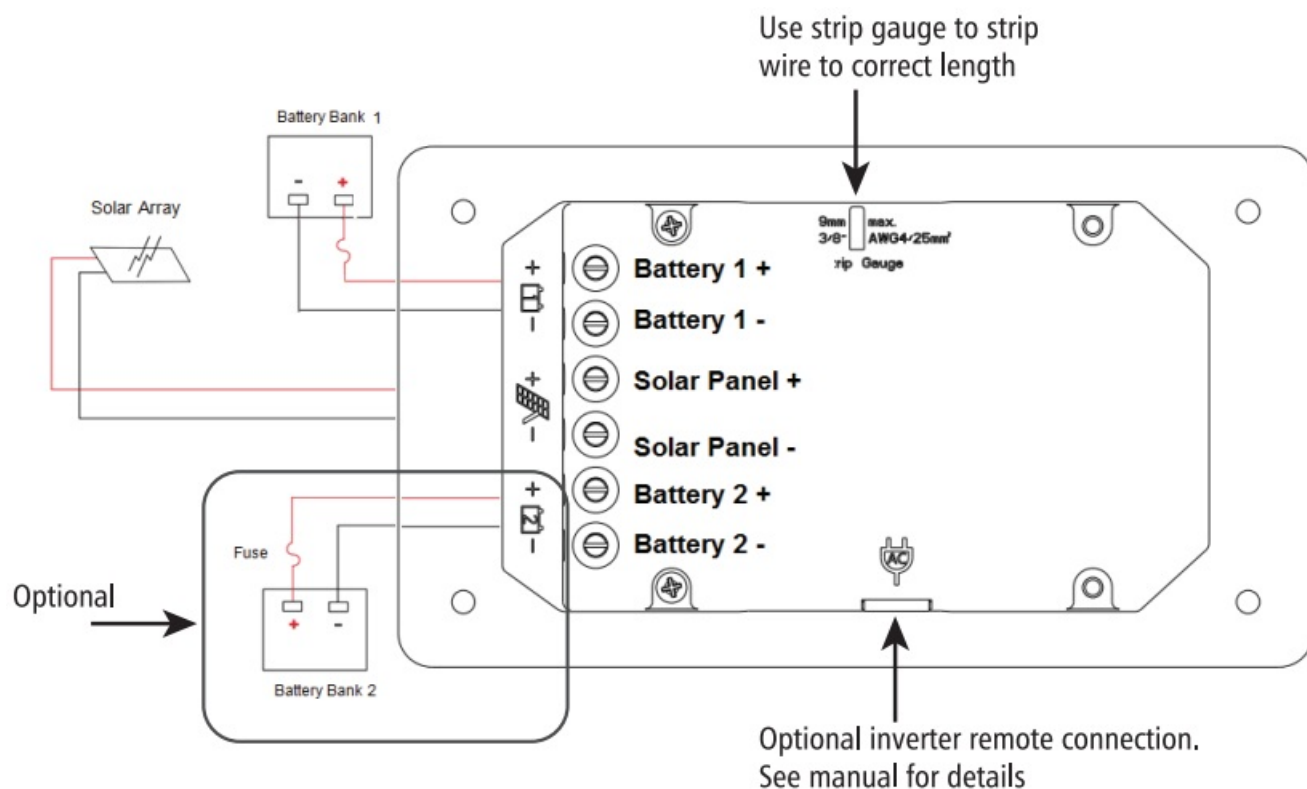
TOOLS

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

The GP-PWM-30-UL should be:

- Mounted as close to battery bank 1 as possible
- Mounted on a vertical surface to optimize cooling of the unit
- Indoors, protected from the weather

SETTING THE BATTERY CHEMISTRY

(Dual Banks Capable)

SETTING BATTERY 1

To set the battery type for battery bank 1, hold the B Button for 3 seconds. When the display shows a blinking number 1, release the B Button.

Next, select the charging profile of battery bank 1 by pressing the B Button to toggle through the profile options: Sealed/Gel, AGM, Flooded, or LFP.

To confirm the battery profile, press and hold the A Button for 3 seconds.

SETTING BATTERY 2

If you have a second, completely separate battery bank connected, the controller will immediately prompt you to set the battery type for Battery 2 with a blinking number 2.

To select the charging profile of battery bank 2, press the B Button to toggle through the profile options:

Sealed/Gel, AGM, Flooded, or LFP.

To confirm the battery profile, press and hold the A Button for 3 seconds.

BLUETOOTH® WIRELESS TECHNOLOGY

The GP-PWM-30-UL comes with Bluetooth® Low Energy wireless technology for live status monitoring and settings configuration on mobile devices. It works together with the Go Power! Connect App, available for both Android and iOS devices.

Download and install the Go Power! Connect app, which is available on the Google Play store for Android devices and the App Store for iOS devices.



Documents / Resources



[DOMETIC GP-PWM-30-UL Dual Bank Bluetooth Solar Controller](#) [pdf] User Guide
GP-PWM-30-UL, GP-PWM-30-UL Dual Bank Bluetooth Solar Controller, Dual Bank Bluetooth Solar Controller, Bank Bluetooth Solar Controller, Bluetooth Solar Controller, Solar Controller, Controller