

LED PATTERN	STATUS	LED PATTERN	STATUS
Off	Night time	Steady On	MPPT charging
Double flash	Day time	Fast Flash	Absorption or Equalize
Single Flash	No PV input	Slow Flash	Float Charging

## **SPECIFICATIONS**

ITEM	PARAMETERS		
System Voltage	12/24V		
No-load Loss	8ma		
Max PV Input Voltage	<100V		
Rated Charge Current	30A		
Max PV Input Power	600W/12V;1200W/24V		

## **WARNINGS**

4	Disconnect all power sources	Electricity can be very dangerous. Installation should be performed only by a 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.
A	Observe correct polarity	Reverse polarity of the Battery 1 terminals will cause the controller to give a warning tone Reverse connection of Battery 2 terminals will not cause an alarm. However, the controller will not charge or display information for Battery 2 on the LCD. The controller will not function unless Battery 1 terminals are connected to a battery with proper polarity. Failure to correct this fault could damage the controller.
	Do not exceed the GP-RVC-30-MPPT max current ratings	The maximum current of the solar system is the sum of parallel-connected PV module– rated short circuit Currents (Isc) multiplied by 1.25. The resulting system current is not to exceed 37.5A. If your solar system exceeds this value, contact your dealer for a suitable controller alternative.
A	Do not exceed the GP-RVC-30-MPPT max voltage ratings	The maximum voltage of the array is the sum of the PV module–rated open-circuit voltage of the series connected modules multiplied by 1.25 (or by a value from NEC 690.7). The resulting voltage is not to exceed 35V. If your solar system exceeds this value, contact your dealer for a suitable controller alternative.

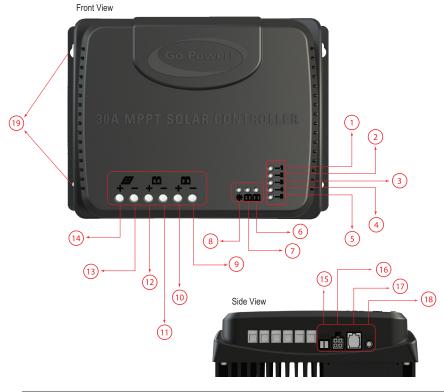
GP-RVC-30-MPPT





# SOLAR CHARGE CONTROLLER

**Quick Start Guide** 



NO.	DESCRIPTION	NO.	DESCRIPTION
1-5	-5 Instance Indicators		Connection terminals (PV-)
6	6 LED Indicator (BAT2)		Connection terminals (PV+)
7	LED Indicator (BAT1)	15	Port for external temperature sensor
8	LED Indicator (PV)	16	Canbus communication port
9	Connection terminals (BAT2-)	17	RS485 communication port
10	Connection terminals (BAT2+)	18	Setup Key
11	Connection terminals (BAT1-)	19	Installation hole
12	Connection terminals (BAT1+)		

Find tech tips, manuals and support at gopowersolar.com

## **INSTALLATION AND WIRING - OVERVIEW**

The GP-RVC-30-MPPT should be mounted vertically in a battery box with enough ventilation and no less than 6 inches (150mm) above and below the controller. This step is vital for proper heat dissipation.

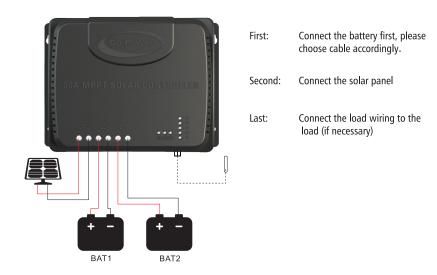
#### **TOOLS AND MATERIALS NEEDED**

- 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-RVC-30-MPPT 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.



Mount your controller vertically, using the screws included in the box.

Your solar controller should now be powered on, to a default AGM battery setting. Follow the instructions on the next page to select a different battery chemistry.

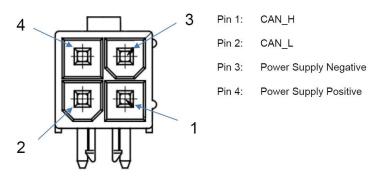


### **SETTING INSTANCE**

The instance of the solar controller on the RV-C network can be configured using the button and LEDs. Up to 5 unique instances are supported. To change the instance the following steps can be used.

- 1) Hold the button down for approximately 3 seconds until one of the LEDs starts flashing.
- 2) Press the button to change instance until the LED for the desired instance is flashing.
- 3) Press and hold the button for approximately 3 seconds to lock in the setting

## **RV-C CONNECTOR PINOUT**



## **LED INDICATORS**



## **BAT INDICATOR:**

LED Pattern	Status	
Single Flash	No Battery	
Fast Flash	Battery over voltage	
Slow Flash	Battery over discharged	
Steady On	Battery status is ok	