

30 AMP MPPT SOLAR CONTROLLER with RVC CONNECTIVITY

MAXIMUM POWER OUTPUT & CONNECTIVITY FOR MID-SIZED SOLAR ARRAYS



Top View



CONNECTIVITY & BATTERY PROTECTION IN A SINGLE UNIT

The GP-MPPT-30-RVC optimizes solar charging capacity in mobile systems in all sun and tilt conditions while allowing the use of simpler series wiring configurations up to 100V (Voc @ STC).

FEATURES:

- Easily integrated with onboard communications systems
- Stackable. Pair up to 5 on a single system for a max solar array of 3000 watts, or 150 amps
- Supports multiple battery chemistries
- Heavy-duty terminals for low resistance connections
- Maximizes energy yield in mutiple array tilt conditions
- Reacts faster to changes in solar conditions
- Optional remote
- Up to 98% power conversion efficiency
 - 5-year warranty

ITEM			ARAMETERS								
System Voltage	12/24V										
No-load Loss	8ma										
Max PV Input Voltage	<100V										
Rated Current Charge	30A										
Max PV Input Power	600W/12V;1200W/24V										
Battery Type Selection	GEL	AGM	FLOODED	LiFePO4	Custom						
Equalize Charge Voltage	-	-	14.9V/29.8V	-	8.32V						
Bulk-Absorption Voltage	14.1V/28.2V		14.4V/28.8V		8.32V						
Float Charge Voltage		13.7V/27.4V		14.0V/28.0V	8.32V						
Recharge Voltage		13.2V/26.4V									
Over-Discharge Return Voltage		12.8V/25.2V		12.2V/24.4V	8.32V						
Under-Voltage Warning Level		12.0V/24.0V									
Over-Discharge Voltage	11.0V/22.0V										
Operation Temperature	$-35^{\circ}C \sim +45^{\circ}C$										
Dimensions	3.37 x 7.77 x 5.71 in (85.6 x 197.5 x 145 mm)										
Weight	3.14lb (1.42kg)										
IP Protection			IP30								
Communication	RS485, Canbus										
Operation Altitude	< 3000M										
Warranty	5-years										

Specifications may be subject to change. Product may not be exactly as shown. Specifications subject to local environmental conditions.

gpelectric.com



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COMPATIBLE ACCESSORIES

BLUETOOTH® ENABLED GP-RVC-R REMOTE

Conveniently set and view essential charge information. The GP-RVC-R is a surface mounted remote display for GP-RVC-MPPT photovoltaic (PV) charge controllers. The GP-RVC-R shows the charge current to the battery and battery voltage.

FEATURES:

- View operating status in real-time
- Bluetooth[®] ready with the Go Power! Connect app
- No need for external power supply
- Identifies and displays controller parameter data of GP-RVC-MPPT series, including:
 - voltage
 - current
 - total charge/discharge
 - min/max voltage
- 5-year warranty



Front View



Side View



View your solar charge status remotely with the Go Power! Connect app.





		12:37 Solar Controller	85.748 Ø	12:38	84 %.4 s	12:38	194 % A B	12:38 ← Solar settings	10 K % / 1
Battery Minitor	•	Battery State		← Solar settings	_	← Solar settings		Solar settings Bark 2 Bulk-Absorption Voltage	14.1V
tary State of Durget		Dattery State	or onarge	Advance Settings		Bank 2 High Voltage Disconnect	16.0V		120min
(100%)				Bank 1 High Voltage Disconnect	15.0V	Bank 2 Equalize Voltage	14.1V	Bank 2 Absorption Duration	
				Bank 1 Equalize Voltage	14.1V	Bank 2 Equalize Duration	Omin	Bank 2 Float Voltage	13.7V
litter Vitori				Bank 1 Equalize Duration	Omin	Bank 2 Equalize Interval	Odays	Bank 2 Recharging Voltage	13.2V
Sectored	Battery Monitor 🔅			Bank 1 Equalize Interval	Odays	Bank 2 Bulk-Absorption Voltage	14.1V	Bank 2 Under Voltage Warning	12.0V
_	0.90kWh 21.80kWh			Bank 1 Bulk-Absorption Voltage	14.1V	Bank 2 Absorption Duration	120min	Bank 2 Discharge Limit Voltage	11.0V
Monamed	gas.			Bank 1 Absorption Duration	120min	Bank 2 Float Voltage	13.7V	Bank 2 Over-discharge Delay Time	10.0S
ne Renairing ar	Total charge cycles Gince last full charge 3 02	Bank1	Bank2	Bank 1 Float Voltage	13.7V	Bank 2 Recharging Voltage	13.2V	Bank 2 Over-discharge Return	12.8V
laring flack belowed on	· · · · · · · · · · · · · · · · · · ·			Bank 1 Recharging Voltage	13.2V	Bank 2 Under Voltage Warning	12.0V	Bank 2 Temperature Compensation Factor	24.0mV/C/2
ontegen	Synchronizations Full-dischargen 3 0			Bank 1 Under Voltage Warning	13.6V	Bank 2 Discharge Limit Voltage	11.0V	Compensation Factor	
wy bak Capacity 1628/ 0 = 12	Buttery voltage	Bank 1 Voltage	13.5V	Bank 1 Discharge Limit Voltage	11.0V	Bank 2 Over-discharge Delay Time	10.05		
91 N	Ministerievy votage 11.45V 14.57V	T Bank I Voltage	13.5V	Bank 1 Over-discharge Delay Time	10.05	Bank 2 Over-discharge Return	12.8V	Reset to Factory Default	Reset
		Bank 2 Voltage	0.01/	Bank 1 Over-discharge Return	12.8V		24.0mV/C/2V		
	Min starter voltage	Bank 2 Voltage	0.0V			Bank 2 Temperature Compensation Factor	24.Umv/C/2V	App Version	1.6.3
				Bank 1 Temp Comp Factor	24.0mV/C/2V			Firmware Version	1.1
	6	Bank 1 Current	0.0A	Bank 2 High Voltage Disconnect	16.0V	Reset to Factory Default	Reset	Hardware Version	1.0
				Bank 2 Equalize Voltage	14.1V			Need Support?	Click Her
		- Bank 2 Current	0.0A	Bank 2 Equalize Duration	Omin				
_						Ann Version	163		
Bluetooth Bluetooth		III O	<	III O	<	III O	<	III O	<