



TECHNICAL BROCHURE
Y202-100V20 RPS



RPS SOLAR PUMP CONTROLLER

RPS | Rural Power Systems
40250 County Road 27
Woodland, Ca 95776

Visit us online at
RPSsolarpumps.com

888-637-4493



SPECIFICATIONS

	RPS100V20
Compatible Systems	RPS 200, 400, 600, 800, 400N, 400V, 800V, T400, T800 <i>(Well, Submersible, 2" Narrow, Transfer)</i>
Solar Min Voltage	30VDC
Solar Max Voltage	90VDC
Max DC Current	Variable 1.6 to 11.6A
MC4 Connectors	1 set (1 male + 1 female)
Solar Power Range	160w - 1200w
Solar Charge Controller	24V/36V/48V Auto Sensing PWM
AC Input Compatible	With External AC to DC Converter Accessory
Motor Compatibility	RPS Permanent Magnet BLDC Motor Only (210w, 370w, 500w)
Minimum Generator Size	1000W (when using 36 or 72V AC to DC Converter Accessory)
Temp. Range	-25 to 60°C, -13 °F to 140 °F
Weight	9lbs
Dimensions	13" x 8" x 6"

MORE FEATURES

- Rated for Continuous Operation
- Tank Sensor - 2 Terminal, Normally Open for Tank Full Detection
- Well Sensor - 2 Normally Closed Terminals for Run-Dry Protection
- Speed Dial for GPM Adjustment
- Low Well Timer Dial - Set up to 30 min delay after low well condition is resolved
- 3-Way Exterior Shut-off Switch (Solar, Battery, Off)
- MPPT Pump Function (Maximum Power Point function is used to optimize the running of the pump motor with variable frequency based on available power)
- Pump Terminals (Labeled 1, 2, 3)
- Over Voltage Protection Diode

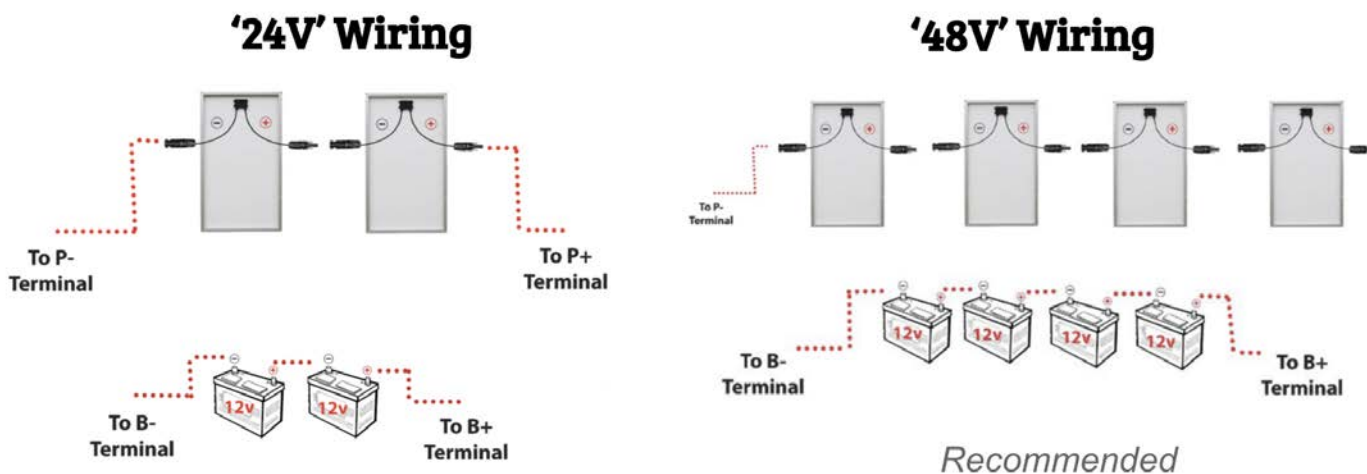
SOLAR CHARGE CONTROLLER

24V/36V/48V Auto Sensing PWM

Max. PV Input Voltage: 90 VDC (Voc). IP65, Working Temperature: -31°F - 113°F. Self-Consumption: <10mA, Recommended Wire Gauge: 12 Gauge. Compatible Batteries: Sealed, Gel, Flooded

	24V	36V	48V
Solar Input Voltage Range:	30V - 44V	50V - 66V	68V - 88V
Solar Input Max Current / Wattage	20A / 600W	20A / 900W	20A / 1200W
Low Battery Cutoff / Float Voltage	22V / 27.4V	33V / 41.1V	44V / 54.8V
Example Arrays	2x 100w 12v panels in series (24v) 1x 300w 24v panel (24v) 2x 180w 24v panels in parallel (24v) 4x 100w 12v in series/parallel (24v)	3x 100w 12v panels in series (36v) 3x 100w 12v panels in series/parallel (36v)	4x 100w 12v panels in series (48v) 8x 100w 12v in series/parallel (48v) 2x 300w 24v panel in series (48v)

Want more power for batteries? Higher input voltages? Ask about adding an external MPPT Solar Charge Controller to your system for more power and flexibility with input voltages, Li-Ion Compatibility etc.



Pledge to Our Customers: We pledge to be a company our grandfathers would have trusted. The all-too-common practice of outsourcing customer support after the sale is one we wholeheartedly oppose. We are an American, family-run company and our USA engineers, who will support you before and after the sale, are the best in the industry. We gain most of our business from word-of-mouth as a result of treating customers with respect and standing by our products. Call us anytime.