



**RPST RemotePro®**

## DATA SHEET

### Outdoor MPPT Remote Power Systems

#### Features

- Complete Remote Power Solution for Off-Grid Operation
- Weatherproof Outdoor Enclosure with up to 200Ah Battery
- Enclosures can be Wall or Pole Mounted (pole not included)
- High Performance Sealed Lead Acid Batteries
- MPPT Manageable Charge Controllers
- Thermostatically Controlled Ventilation

#### Applications

- Wireless Base Stations
- Surveillance Cameras
- Wireless Bridge and Repeaters
- Off-Grid Power
- Remote Lighting
- Backup Power Systems

#### Description

The RPST12/24M RemotePro® MPPT series outdoor power systems are designed for applications that require a primary off-grid power source to run various equipment. The vented weatherproof enclosures have generous space available inside for mounting customer equipment. Multiple mounting brackets are welded inside the enclosure for mounting DIN rails or flat plates.

The systems can be configured as 12VDC or 24VDC for greater compatibility. The manageable MPPT solar controller improves system efficiency by about 15% meaning that more solar energy reaches the batteries. It supports up to 20A load control.

All enclosures are hinged and gasket sealed with tamper resistant locks for security. They have four cable gland ports for CAT5/6 cable, antenna cables/connectors or other cabling. Included is a thermostatically controlled fan assembly which turns on automatically when the temperature exceeds 40°C.

The high quality solar panels have a 25 year power output guarantee and a +5W output tolerance. The enclosures and solar mount can be mounted to a wall or pole (2-4") with the included mounting systems.

Batteries are a Non-Spillable Valve Regulated Sealed Lead Acid Advance Glass Matt (AGM) type which have excellent temperature and deep discharge performance. Expected battery life exceeds 5 years.

The systems come with all cabling required to connect the batteries to the controller and 20' outdoor rated cable to connect the solar panels to the controller.



RPST 160W  
Solar System



RPST 320W  
Solar System



2 Battery  
100Ah



4 Battery  
200Ah



MPPT Solar  
Charge Controller



Solar Mount with 2  
Panels - 160W



Solar Mount with 4  
Panels - 320W

**Specifications**

	RPST12/24M-100-160	RPST12/24M-200-160	RPST12/24M-200-320
Rated Power Generation	25W	40W	50W
Reserve Time @ Rated Power	>24hrs	>30hrs	>24hrs
Load Out (DC)	12 or 24VDC, 20A		
12V Battery Capacity (Amp Hrs)	100Ah	200Ah	200Ah
Battery Voltage (DC)	12 or 24VDC		
Battery Type	Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid AGM		
Battery Life	5+ years		
Solar Controller Type	MPPT (Maximum Power Point Tracking), Manageable, Temperature Compensated, 20A Max Solar, 20A Max Load Control, LCD Display of Voltages and Currents, Battery %		
Bulk Charge	14.4 / 28.8 VDC		
Float Charge	13.8 / 27.6 VDC		
Over-discharge protection	11.1 / 22.2 VDC		
Over-discharge recovery volts	12.6 / 25.2 VDC		
Controller Self Consumption	<1W		
Enclosure Type	Pole/Wall Mount, Powder Coat Steel		
Enclosure External Size	24 x 15 x 14" (610 x 381 x 356mm)		
Enclosure Internal Size	23 x 14 x 12" (584 x 356 x 305mm)		
Internal Mount Features	DIN Rail/Flat Plate Mounting Brackets Welded to Door and Sides		
Solar Panel Dims (LxW)	53.4" x 31" (1356 x 780mm)		53.4" x 62" (1356 x 1560mm)
Operating Temperature	-30°C to +60°C (-22°F to 140°F)		
System Weight (no batteries)	109 lb (49 kg)		136 lb (62 kg)
Battery Weight	80.6 lb (36.5 kg)	161 lb (73 kg)	
Wind Speed Rating	90MPH		
Warranty	3 Years		

**RPST 12/24M-200-320**

<u>Enclosure Type</u> ST - Powder Coat Steel	<u>Battery Voltage</u> 12/24 - 12/24VDC M Suffix = MPPT	<u>Storage Capacity</u> 100 - 100Ah @ 12 Volts 200 - 200Ah @ 12 Volts	<u>Solar Panel Output</u> 160 - 160 Watt 320 - 320 Watt
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**System Ordering:**

Model #	Continuous Power Generation (6hrs peak sun)	Backup Time	Battery Voltage	12V Battery Capacity	Solar Panel Size
RPST12/24M-100-160	25W	>24hrs	12 or 24VDC	100Ah	160W
RPST12/24M-200-160	40W	>30hrs	12 or 24VDC	200Ah	160W
RPST12/24M-200-320	50W	>24hrs	12 or 24VDC	200Ah	320W

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