



**RPST RemotePro®**

**DATA SHEET**

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## Outdoor Remote Power Systems

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### Features

- Complete Remote Power Solution for Off-Grid Operation
- Weatherproof Outdoor Enclosure with up to 200Ah Battery
- Enclosures can be Wall or Pole Mounted
- High Performance Sealed Lead Acid Batteries
- PWM 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 RPST RemotePro® 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 DIN Rail mount features are provided.

All enclosures are hinged and gasket sealed with tamper resistant locks for security. The enclosures can be mounted to a wall or pole (2-4") with the included mounting bracket system.

The high quality solar panels have a 25year power output guarantee. The panel come with a side of pole mounting bracket for mounting to a pole (2-4") or wall.

There are 12V and 24V battery configurations with 24V and 48V PoE outputs up to 30W. There are also systems which feature a 20A output unregulated solar controller for higher output power. Enclosures have four cable gland ports for CAT5/6 cable, antenna cables/connectors or other cabling. The enclosures include a thermostatically controlled fan assembly which turns on automatically when the temperature exceeds 40°C.

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 5years.

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 with 100Ah of battery*



*RPST with 200Ah of battery*



*80W Solar Mount*



*160W / 320W Solar Mount*

**Specifications**

	<i>RPST12xx-100-80</i>	<i>RPST12-xxx-160</i>	<i>RPST12xx-xxx-160</i>	<i>RPST24-xxx-160</i>	<i>RPST24xx-xxx-160</i>	<i>RPST12-200-320</i>	<i>RPST24-100-320</i>	<i>RPST24xx-100-320</i>
<b>Rated Power Generation</b>	20W	25 or 40W	25 or 40W	25 or 40W	25 or 40W	50W	50W	50W
<b>Reserve Time @ Rated Power</b>	30hrs	30hrs	30hrs	30hrs	30hrs	24hrs	24hrs	24hrs
<b>PoE Output Voltage (DC) 30W</b>	24V or 48V	No PoE	24V or 48V	No PoE	24V or 48V	No PoE	No PoE	24V or 48V
<b>Load Out (DC)</b>	11V-15V 1.5A	11V-15V 20A	11V-15V 1.5A	22V-29V 20A	24V 1.5A Regulated	11V-15V 20A	22V-29V 20A	24V 1.5A Regulated
<b>12V Battery Capacity (Amp Hrs)</b>	100Ah	100 or 200Ah	100 or 200Ah	100 or 200Ah	100 or 200Ah	200Ah	200Ah	200Ah
<b>Battery Voltage (DC)</b>	12V	12V	12V	24V	24V	12V	24V	24V
<b>Battery Type</b>	Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid AGM							
<b>Battery Life</b>	5+years							
<b>Solar Controller Type</b>	PWM (Pulse Width Modulated)							
<b>Overcharge Protection</b>	14.4V	14.4V	14.4V	28.6V	28.6V	14.4V	28.6V	28.6V
<b>Over-discharge protection</b>	11.0V	11.0V	11.0V	22V	22V	11.0V	22V	22V
<b>Over-discharge recovery volts</b>	12.0V	12.0V	12.0V	24.8V	24.8V	12.0V	24.8V	24.8V
<b>Controller Self Consumption</b>	<0.5W							
<b>Enclosure Type</b>	Pole/Wall Mount, Powder Coat Steel							
<b>Enclosure External Size</b>	24 x 15 x 14" (610 x 381 x 356mm)							
<b>Enclosure Internal Size</b>	23 x 14 x 12" (584 x 356 x 305mm)							
<b>Internal Mount Features</b>	Din Rail Mounts (3)							
<b>Solar Panel Dims</b>	34" x 26" (855x666mm)	67" x 26" (1710 x 666mm)				67" x 52.4" (1710 x 1332mm)		
<b>Operating Temperature</b>	-30°C to +60°C (-22°F to 140°F)							
<b>System Weight (no batteries)</b>	86lb (39kg)	109lb (49kg)				136lb (62kg)		
<b>Battery Weight</b>	81 lb (37kg)	161 lb (73kg)						
<b>Wind Speed Rating</b>	90MPH							
<b>Warranty</b>	3 Years							

**RPST 12xx-200-320**

**Enclosure Type**  
ST - Powder Coat Steel

**Battery Voltage**  
12 - 12V  
24 - 24V  
xx = PoE Voltage  
(24 or 48)

**Storage Capacity**  
50 - 50Ah @ Rated Volts  
100 - 100Ah @ Rated Volts  
200 - 200Ah @ Rated Volts

**Solar Panel Output**  
80 - 80 Watt  
160 - 160 Watt  
320 - 320 Watt

**System Ordering:**

Model #	Continuous Power Generation (6hrs peak sun)	Backup Time	Battery Voltage	PoE Output Voltage	12V Battery Capacity	Solar Panel Size
RPST1224-100-80	20W	>30hrs	12VDC	24V	100Ah	80W
RPST1248-100-80	20W	>30hrs	12VDC	48V	100Ah	80W
RPST12-100-160	25W	>24hrs	12VDC	---	100Ah	160W
RPST1224-100-160	25W	>24hrs	12VDC	24V	100Ah	160W
RPST1248-100-160	25W	>24hrs	12VDC	48V	100Ah	160W
RPST24-50-160	25W	>24hrs	24VDC	---	100Ah	160W
RPST2424-50-160	25W	>24hrs	24VDC	24V	100Ah	160W
RPST2448-50-160	25W	>24hrs	24VDC	48V	100Ah	160W
RPST12-200-160	40W	>30hrs	12VDC	---	200Ah	160W
RPST1224-200-160	40W	>30hrs	12VDC	24V	200Ah	160W
RPST1248-200-160	40W	>30hrs	12VDC	48V	200Ah	160W
RPST24-100-160	40W	>30hrs	24VDC	---	200Ah	160W
RPST2424-100-160	40W	>30hrs	24VDC	24V	200Ah	160W
RPST2448-100-160	40W	>30hrs	24VDC	48V	200Ah	160W
RPST12-200-320	50W	>24hrs	12VDC	---	200Ah	320W
RPST24-100-320	50W	>24hrs	24VDC	---	200Ah	320W
RPST2424-100-320	50W	>24hrs	24VDC	24V	200Ah	320W
RPST2448-100-320	50W	>24hrs	24VDC	48V	200Ah	320W

**Must Have Accessories:**Tycon® BreezePro® 400W Wind Turbine

(pn TPW-400DT-12/24)

- Generates power on stormy days when there is limited sun.
- Auto ranging 12VDC or 24VDC
- Integrated controller and dump load

Tycon® Remote Monitoring and Control

(pn TPDIN-Monitor-WEB2)

- Remotely monitor battery levels and overall system performance. Measure 4 voltages, 4 currents and 2 temperatures.
- Turn various equipment off or on remotely, Manually or Automatically
- HTTP WEB interface, SNMP, Email Alerts
- DIN Rail mounting, PoE or wire terminal powered

**For further information contact:**[Tyconsystems.com](http://Tyconsystems.com)