

Outdoor 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
- High Performance Sealed Lead Acid Batteries
- PWM Charge Controllers
- Thermostatically Controlled Ventilation



Applications

- Wireless Base Stations
- Wireless Bridge and Repeaters
- Remote Lighting
- Surveillance Cameras
- Off Grid Power
- 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 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 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 45°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

| | RPST12xx-100-80 | RPST12-xxx-160 | RPST12xx-xxx-160 | RPST24-xxx-160 | RPST24xx-xxx-160 | RPST12-200-320 | RPST24-100-320 | RPST24xx-100-320 |
|---------------------------------------|---|--------------------------|------------------|----------------|-----------------------|-----------------------------|----------------|-----------------------|
| Rated Power Generation | 20W | 25 or 40W | 25 or 40W | 25 or 40W | 25 or 40W | 50W | 50W | 50W |
| Reserve Time @ Rated Power | 30hrs | 30hrs | 30hrs | 30hrs | 30hrs | 24hrs | 24hrs | 24hrs |
| PoE Output Voltage (DC) 30W | 24V or 48V | No PoE | 24V or 48V | No PoE | 24V or 48V | No PoE | No PoE | 24V or 48V |
| Load Out (DC) | 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 |
| 12V Battery Capacity (Amp Hrs) | 100Ah | 100 or 200Ah | 100 or 200Ah | 100 or 200Ah | 100 or 200Ah | 200Ah | 200Ah | 200Ah |
| Battery Voltage (DC) | 12V | 12V | 12V | 24V | 24V | 12V | 24V | 24V |
| Battery Type | Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid AGM | | | | | | | |
| Battery Life | 5+years | | | | | | | |
| Solar Controller Type | PWM (Pulse Width Modulated) | | | | | | | |
| Overcharge Protection | 14.4V | 14.4V | 14.4V | 28.6V | 28.6V | 14.4V | 28.6V | 28.6V |
| Over-discharge protection | 11.0V | 11.0V | 11.0V | 22V | 22V | 11.0V | 22V | 22V |
| Over-discharge recovery volts | 12.0V | 12.0V | 12.0V | 24.8V | 24.8V | 12.0V | 24.8V | 24.8V |
| Controller Self Consumption | <0.5W | | | | | | | |
| 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 Mounts (3) | | | | | | | |
| Solar Panel Dims | 34" x 26" (855x666mm) | 67" x 26" (1710 x 666mm) | | | | 67" x 52.4" (1710 x 1332mm) | | |
| Operating Temperature | -30°C to +60°C (-22°F to 140°F) | | | | | | | |
| System Weight (no batteries) | 86lb (39kg) | 109lb (49kg) | | | | 136lb (62kg) | | |
| Battery Weight | 81 lb (37kg) | 161 lb (73kg) | | | | | | |
| Wind Speed Rating | 90MPH | | | | | | | |
| Warranty | 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
- HTTP WEB interface, SNMP
- DIN Rail mounting, PoE or wire terminal powered

**For further information contact:**Tyconsystems.com