



# RemotePro® 100W Lithium Series DATA SHEET

## Outdoor Remote Power Systems

### Features

- Complete 100W Remote Power Solution for Off-Grid Operation
- 4000+ Cycle Life @ 80% discharge LiFePO4 Lithium Batteries
- Weatherproof Aluminum Outdoor Enclosure with up to 100Ah Battery
- Enclosures can be Wall or Pole Mounted (pole not included)
- PWM and MPPT Solar Charge Controllers with 20A Load Control
- Thermostatically Controlled Ventilation



RPS 100W  
Solar System

### Applications

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

### Description

The RemotePro® 100W Lithium Series outdoor power systems are designed for applications that require a primary off-grid power source to run various equipment. The vented weatherproof aluminum 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 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 solar panels can be mounted to a 51mm to 101mm (2" to 4") diameter pole or alternately to a wall with the included bracket kit.

Features include advanced PWM or MPPT battery charge controllers with LVD load control.

Batteries are a Wide Temp LFP (LiFePO4) Lithium type which have superb 80% deep discharge and 4000+ cycle life performance. The batteries have an embedded BMS (Battery Management System) to enable 10+ year battery life.

The aluminum enclosures are hinged and gasket sealed with a locking closure that accepts a common padlock 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 45°C.

The systems come with all cabling required to connect the batteries to the controller and 6' outdoor rated cable to connect the solar panels to the controller.



RPS Enclosure



RPL Enclosure

**Specifications**

|                                      | <b>RPS12-50L-100</b>   | <b>RPS12M-100L-100</b>            | <b>RPL12M-100L-100</b> |
|--------------------------------------|--|-----------------------------------|------------------------|
| <b>Load Out (DC)</b>                 | 12V 20A Wire Terminal  |                                   |                        |
| <b>Solar Controller Type</b>         | 20A PWM w/ LVD   | 40A MPPT with LVD                 |                        |
| <b>Battery Voltage (DC)</b>          | 12VDC  |                                   |                        |
| <b>Battery Type</b>                  | Wide Temp LFP (LiFePO4) Lithium                                |                                   |                        |
| <b>Battery Life</b>                  | 10+ years  |                                   |                        |
| <b>Charge Voltage</b>                | 14.6 VDC   |                                   |                        |
| <b>Low Voltage Disconnect</b>        | 11.1 VDC   |                                   |                        |
| <b>Over-discharge recovery volts</b> | 12.5 VDC   |                                   |                        |
| <b>Controller Self Consumption</b>   | <0.5W  |                                   |                        |
| <b>Enclosure Type</b>                | ENC-AL-12x14x15 Pole/Wall Mount, Powder Coat Aluminum          | ENC-AL-21x14x15 Aluminum          |                        |
| <b>Enclosure Size</b>                | 12 x 14 x 15" (305 x 356 x 381mm)                              | 21 x 14 x 15" (533 x 356 x 381mm) |                        |
| <b>Internal Mount Features</b>       | DIN Rail/Flat Plate Mounting Brackets Welded to Door and Sides |                                   |                        |
| <b>Solar Panel Dims (LxWxT)</b>      | 24.4" x 30.3" x 1.2" (620 x 770 x 30mm)                        |                                   |                        |
| <b>Operating Temperature</b>         | <b>-30°C to +60°C (-22°F to 140°F)</b>                         |                                   |                        |
| <b>System Weight (no batteries)</b>  | 41 lb (19 kg)  |                                   | 47 lb (21 kg)          |
| <b>Battery Weight</b>                | 13.5 lb (6.1 kg)   | 27 lb (12.2 kg)                   |                        |
| <b>Wind Speed Rating</b>             | 90MPH  |                                   |                        |
| <b>Warranty</b>                      | 3 Years  |                                   |                        |

**System Ordering:**

| Model #         | Continuous Power Generation* | Reserve Time | Enclosure Type | Battery Voltage | Battery Capacity | Solar Panel Size |
|-----------------|------------------------------|--------------|----------------|-----------------|------------------|------------------|
| RPS12-50L-100   | 18.5                         | 24hrs        | Small AL       | 12 VDC          | 100Ah            | 100W             |
| RPS12M-100L-100 | 21.5                         | 48hrs        | Small AL       | 12 VDC          | 100Ah            | 100W             |
| RPL12M-100L-100 | 21.5                         | 48hrs        | Large AL       | 12 VDC          | 100Ah            | 100W             |

\*6 hrs peak sun

**Note:** The Wide Temp Lithium batteries used in these systems are designed for operation in -30C to +60C environments making them perfect for year round outdoor use in all climates.



MPPT Solar Controller



PWM Solar Controller



12V 50Ah Lithium Battery

**For further information contact:**

[Tyconsystems.com](http://Tyconsystems.com)

