



# RemotePro<sup>®</sup> 85W Lithium Series DATA SHEET

## Outdoor Remote Power Systems

### Features

- Complete 85W 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 85W  
Solar System

### Applications

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

### Description

The RemotePro<sup>®</sup> 85W 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 an 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 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

	RPS12-50L-85	RPS12M-100L-85	RPL12M-100L-85
Load Out (DC)	12V 20A Wire Terminal		
Solar Controller Type	20A PWM	30A MPPT	
Battery Voltage (DC)	12VDC		
Battery Type	LFP (LiFePO4) Lithium without heater		
Battery Life	10+ years		
Charge Voltage	14.6 VDC		
Low Voltage Disconnect	11.1 VDC		
Over-discharge recovery volts	12.5 VDC		
Controller Self Consumption	<0.5W		
Enclosure Type	ENC-AL-12x14x15 Pole/Wall Mount, Powder Coat Aluminum	ENC-AL-21x14x15 Aluminum	
Enclosure Size	12 x 14 x 15" (305 x 356 x 381mm)	21 x 14 x 15" (533 x 356 x 381mm)	
Internal Mount Features	DIN Rail/Flat Plate Mounting Brackets Welded to Door and Sides		
Solar Panel Dims (LxWxT)	31" x 27" x 1.4" (780 x 678 x 35mm)		
Operating Temperature	0°C to +60°C (32°F to 140°F)		
System Weight (no batteries)	41 lb (19 kg)		47 lb (21 kg)
Battery Weight	13.5 lb (6.1 kg)	27 lb (12.2 kg)	
Wind Speed Rating	90MPH		
Warranty	3 Years		

## System Ordering:

Model #	Continuous Power Generation*	Reserve Time	Enclosure Type	Battery Voltage	Battery Capacity	Solar Panel Size
RPS12-50L-85	18.5	24hrs	Small AL	12 VDC	100Ah	85W
RPS12M-100L-85	18.5	48hrs	Small AL	12 VDC	100Ah	85W
RPL12M-100L-85	18.5	48hrs	Large AL	12 VDC	100Ah	85W

\*6hrs peak sun

**Note:** The Lithium batteries used in these systems do not have heaters. Batteries will continue to supply power but will not accept a charge if battery temperature drops below 0°C (32°F). These systems are only recommended for milder winter climates.



MPPT Solar Controller



PWM Solar Controller



12V 50Ah Lithium Battery

For further information contact:

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

