



# RemotePro<sup>®</sup> 170W Lithium Series

## DATA SHEET

### Outdoor Remote Power Systems

#### Features

- Complete 170W Remote Power Solution for Off-Grid Operation
- 4000+ Cycle Life @ 80% discharge LiFePO4 Lithium Batteries
- Weatherproof Outdoor Enclosures accommodate up to 400Ah Battery
- Enclosures can be Wall or Pole Mounted (pole not included)
- MPPT Solar Charge Controllers with RS485 Interface
- Thermostatically Controlled Ventilation



RPL 170W  
Solar System

#### Applications

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

#### Description

The RemotePro<sup>®</sup> 170W Lithium 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 enclosures can be mounted to a wall or pole with the included mounting bracket system.

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 system.

Features include advanced 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. Systems can be configured as 12V or 24V battery voltage.

The outdoor enclosures are powder coated steel or aluminum. They 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 20' outdoor rated cable to connect the solar panels to the controller.



RPL Enclosure interior  
without batteries or controller



RPSTL Enclosure interior  
without batteries or controller

#### Specifications

# RemotePro<sup>®</sup> 170W Lithium Series

	RPL12/24M-200L-170	RPSTL12/24M-200L-170
Load Out (DC)	12V or 24V 20A Wire Terminal	
Solar Controller Type	30A MPPT with LVD	
Battery Voltage (DC)	12V or 24V (User Configurable)	
Battery Type	LFP (LiFePO4) Lithium without heater	
Battery Life	10+ years	
Charge Voltage	14.6V / 29.2V	
Low Voltage Disconnect	11.1V / 22.2V	
Over-Discharge Recovery Volts	12.5V / 25V	
Controller Self Consumption	<0.5W	
Enclosure Type	ENC-AL-21x14x15 Pole/Wall Mount, Powder Coat Aluminum	ENC-STL-24x24x16 Pole/Wall Mount, Powder Coat Steel
Enclosure Size	21 x 14 x 15 (537 x 356 x 381mm)	23.9 x 23.9 x 16.1" (608 x 608 x 409.5mm)
Internal Mount Features	DIN Rail/Flat Plate Mounting Brackets Welded to Door and Back	
Solar Panel Dims (L x W x T)	170W Solar Array 62" x 27" x 1.4" (1575 x 678 x 35mm)	
Operating Temperature	0°C to +60°C (32°F to 140°F)	
System Weight (no batteries)	48 lb (22 kg)	109 lb (49 kg)
Battery Weight	13.5 lb (6kg) x 4 battery = 54lb (24.5kg)	
Wind Speed Rating	90MPH	
Warranty	3 Years	

## System Ordering:

Model #	Continuous Power Generation*	Reserve Time	Enclosure Type	Battery Voltage	Battery Capacity	Solar Panel Size
RPL12/24M-200L-170	37W	48hrs	Lg Aluminum	12/24V	200Ah	170W
RPSTL12/24M-200L-170	37W	48hrs	Large Steel	12/24V	200Ah	170W

\*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



12V 50Ah Lithium Battery

For further information contact:

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