



RemotePro® 400W Lithium Series DATA SHEET

Outdoor Remote Power Systems

Features

- Complete 400W 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 400W
Solar System

Applications

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

Description

The RemotePro® 400W 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 and RS485 interface.

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. Systems can be configured as 12V or 24V battery voltage and also 48V.

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 – Controller Specific

	RPL/STL 12/24 MPPT	RPSTL 12/48M	RPSTL 48
Controller Type	MPPT with display and RS485		MPPT with 7 Port GigE 24/48V PoE Switch and Remote Monitoring. Manageable.
Controller Outputs	20A Wire Terminal		4 Ports 802.3at PoE, 3 ports 24/48V Passive PoE, 1 3A aux port. 200W Max Output.
Bulk Charge	14.4V @ 12V Battery 28.8V @ 24V Battery	14.4V @ 12V Battery 28.8V @ 24V Battery 57.6V @ 48V Battery	57.6V
Over-discharge protection	11.1V @ 12V Battery 22.2V @ 24V Battery	11.1V @ 12V Battery 22.2V @ 24V Battery 44.4V @ 48V Battery	44.4V
Over-discharge recovery volts	12.6V @ 12V Battery 25.2V @ 24V Battery	12.6V @ 12V Battery 25.2V @ 24V Battery 50.4V @ 48V Battery	50.4V
Controller Self Consumption	<1W	<1W	3.5W Typ
			

Specifications – Enclosure Specific

	RPL	RPSTL
Battery Type	Wide Temp LFP (LiFePO4) Lithium	
Battery Life	10+ years	
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)	400W Solar Array 49" x 61" x 1.2" (1240 x 1540 x 30mm)	
Operating Temperature	-30°C to +60°C (-22°F to 140°F)	
System Weight (no batteries)	67 lb (31 kg)	136 lb (62 kg)
Battery Weight	13.5 lb (6kg) x 4 battery = 54lb (24.5kg)	
Wind Speed Rating	90MPH	
Warranty	3 Years	



400W Solar Mount



12V 50Ah Lithium Battery

RemotePro® 400W Lithium Series

System Ordering:

Model #	Continuous Power Generation*	Reserve Time	Enclosure Type	Battery Voltage	Battery Capacity	Controller Type	Output	Solar Panel Size
RPL12/24M-200L-400	75W	24 hrs	Large Aluminum	12/24V	200Ah	12/24 MPPT	12/24V 20A	400W
RPSTL12/24M-200L-400	75W	24 hrs	Large Steel	12/24V	200Ah	12/24 MPPT	12/24V 20A	400W
RPSTL12/48M-200L-400	75W	24 hrs	Large Steel	12/24V 48V	200Ah	12-48 MPPT	12/24/48V 20A	400W
RPSTL48-200L-400	75W	24 hrs	Large Steel	48V	200Ah	48 MPPT w/ PoE Switch	24/48V PoE	400W

*6hrs 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.

For further information contact:

Tyconsystems.com

