



Outdoor Remote Power Systems

Features

- Complete 400W Remote Power Solution for Off-Grid Operation
- Weatherproof Outdoor Enclosures with up to 400Ah Battery
- Enclosures can be Wall or Pole Mounted (pole not included)
- High Performance Sealed Lead Acid AGM Batteries
- 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 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 systems are available with MPPT temperature compensated solar charge controllers with an RS485 interface for remote monitoring with a Tycon TPDIN-Monitor-WEB3 or TP-SC-WIFI adapter. The solar controllers turn off the load automatically if the battery voltage drops too low, in order to preserve battery life. The load turns on automatically once the battery voltage recovers.



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 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.

Batteries are a Non-Spillable Valve Regulated Sealed Lead Acid Absorbed Glass Matt (AGM) type which have excellent temperature and deep discharge performance. Expected battery life exceeds 5 years.

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.

Specifications – Controller Specific

	12/24 MPPT	12/48 MPPT
Controller Type	MPPT with display and RS485	
Controller Outputs	20A or 30A Wire Terminal	
Bulk Charge	14.4V @ 12V Battery 28.8V @ 24V Battery	14.4V @ 12V Battery 28.8V @ 24V Battery 57.6V @ 48V Battery
Float Charge	13.8V @ 12V Battery 27.6V @ 24V Battery	13.8V @ 12V Battery 27.6V @ 24V Battery 55.2V @ 48V Battery
Over-discharge protection	11.1V @ 12V Battery 22.2V @ 24V Battery	11.1V @ 12V Battery 22.2V @ 24V Battery 44.4V @ 48V Battery
Over-discharge recovery volts	12.6V @ 12V Battery 25.2V @ 24V Battery	12.6V @ 12V Battery 25.2V @ 24V Battery 50.4V @ 48V Battery
Controller Self Consumption	<1W	<1W
		

Specifications – Enclosure Specific

	RPL	RPSTL
Battery Type	Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid AGM	
Battery Life	5+ 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	40.3 lb (18.3 kg) (Each 50Ah Battery)	
Wind Speed Rating	90MPH	
Warranty	3 Years	



AGM 12V 52Ah Battery

RPL Enclosure interior
without batteries or controllerRPSTL Enclosure interior
without batteries or controller

System Ordering:

Model #	Enclosure Type	Battery Voltage	Battery Capacity @12V	Rated Continuous Power with 6hrs Peak Sun	Backup Time @ Rated Power	Controller Type	Output	Solar Panel Size
RPL12/24M-200-400	Large Aluminum	12/24V	200Ah	50W	>24hrs	12/24 MPPT	12/24V 20A	400W
RPSTL12/24M-200-400	Large Steel	12/24V	200Ah	50W	>24hrs	12/24 MPPT	12/24V 20A	400W
RPSTL12/24M-400-400	Large Steel	12/24V	400Ah	87W	>31hrs	12/24 MPPT	12/24V 20A	400W
RPSTL12/48M-400-400	Large Steel	12/24/48V	400Ah	87W	>31hrs	12/48 MPPT	12/24/48V 30A	400W

Part Number Definition:

RPL 12/24M-200-400

<u>Enclosure Type</u>	<u>Battery Voltage_Ctrl Type</u>	<u>12V Storage Capacity</u>	<u>Solar Panel Output</u>
S - Small Aluminum	12/24 - 12/24V PWM	100 - 100Ah	100 - 100 Watt
L - Large Aluminum	12/24M - 12/24V MPPT	200 - 200Ah	200 - 200 Watt
STL - Large Steel	12/48M - 12/24/48V MPPT	400 - 400Ah	400 - 400 Watt



400W Solar Mount

Available Accessories



TPDIN-Monitor-WEB3 V2 Remote Monitor with RS485 Interface + TPDIN-CABLE-485



TP-SC-WIFI WiFi Adapter for MPPT

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