



RPPL-SM-L Series

DATA SHEET

Outdoor Remote Power Systems

Features

- Complete Remote Power Solution for Off-Grid operation
- 4000+ Cycle Life @ 80% discharge LiFePO4 Lithium Batteries
- Weatherproof, UV resistant, outdoor enclosures
- Enclosures can be Wall or Pole Mounted
- Advanced battery charge controller and Embedded BMS for extended battery life

Applications

- Wireless Base Stations and Clients
- Surveillance Cameras
- Wireless Bridge and Repeaters
- Remote Sensors
- Remote Lighting
- Backup Power Systems



Description

The RemotePro® PL-SM-L series (RPPL) outdoor power systems are designed for applications that require a primary off-grid or backup power source to run various electronics. The sealed and weatherproof 11x7x6" Polycarbonate enclosures hold up to two 12V 10AH batteries. The enclosures are hinged and gasket sealed. They can accept a padlock or tamper seal.

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 battery charge controllers with LVD load control. Some of the RPPL-SM-L systems include a controller with built in POE inserter and DCDC converter to supply 24V or 48V PoE from the 12V or 24V battery system. Other models use a 20A PWM controller with parametric LCD display. Enclosures have multiple ports for CAT5/6 cable, antenna cables/connectors or other cabling.

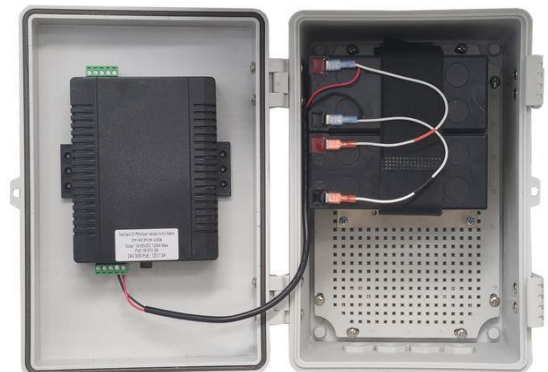
Batteries are an LFP (LiFePO4) Lithium type which have superb 80% deep discharge and 4000+ cycle life performance. The batteries have an embedded BMS (Battery Management System) to enable 10+ year battery life.



Solar Mount



20A PWM Controller Inside



10A Solar, 30W PoE Controller Inside

Specifications

	RPPL12-10L-15	RPPL12-10L-35	RPPL12-20L-35	RPPL24-20L-30	RPPL1224-20L-35	RPPL1248-20L-35	RPPL2424-20L-30	RPPL2448-20L-30
Passive PoE Out (30W)	---	---	---	---	24V	48V	24V	48V
Secondary Volts Out (DC)	12V 20A			24V 20A	12V 1.5A		24V 1.5A	
Battery Capacity (Amp Hrs)	10Ah	20Ah						
Battery Voltage (DC)	12V			24V	12V		24V	
Battery Type	Wide Temp LFP (LiFePO4) Lithium without heater							
Battery Life	10 Years							
Controller Type	PWM				Dual Input: Solar/POE, Dual Output: Battery Voltage/POE with DCDC Converter			
Overcharge Protection	14.4V			28.6V	14.4V			
Over-discharge protection	11.0V			22.0V	11.0V			
Over-discharge recovery volts	12.5V			24.5V	12.5V			
Controller Self Consumption	< 0.5W							
Enclosure Type	UV Protected Polycarbonate							
Enclosure External Size	12 x 8.5 x 7" (305 x 216 x 178mm)							
Enclosure Internal Size	11 x 7 x 6" (279 x 178 x 152mm)							
Solar Panel Dims	14.6 X 14.2" (370 x 360mm)	21 X 20" (540 x 510mm)						
Operating Temperature	-30°C to +60°C (-22°F to 140°F)							
System Weight (no batteries)	11lb (5kg)	17lb (8kg)						
Battery Weight	2.2lb (1kg)			4.4lb (2kg)				
Wind Speed Rating	110MPH (49m/s)							
Warranty	3 Years							

System Ordering:

Model #	Continuous Power Generation*	Reserve Time	Enclosure Type	Battery Voltage	PoE Output Voltage	Battery Capacity	Solar Panel Size
RPPL12-10L-15	3.75W	24hrs	Polycarbonate	12VDC	---	10Ah	15W
RPPL12-10L-35	3.75W	24hrs	Polycarbonate	12VDC	---	10Ah	35W
RPPL12-20L-35	7.5W	24hrs	Polycarbonate	12VDC	---	20Ah	35W
RPPL1224-20L-35	7.5W	24hrs	Polycarbonate	12VDC	24V	20Ah	35W
RPPL1248-20L-35	7.5W	24hrs	Polycarbonate	12VDC	48V	20Ah	35W
RPPL24-20L-30	6.5W	27hrs	Polycarbonate	24VDC	---	20Ah	30W
RPPL2424-20L-30	6.5W	27hrs	Polycarbonate	24VDC	24V	20Ah	30W
RPPL2448-20L-30	6.5W	27hrs	Polycarbonate	24VDC	48V	20Ah	30W

*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

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