



RemotePro® 100W Series

DATA SHEET

Outdoor Remote Power Systems

Features

- Complete 100W Remote Power Solution for Off-Grid Operation
- Weatherproof Aluminum Outdoor Enclosure with 100Ah Battery
- Enclosure can be Wall or Pole Mounted (pole not included)
- High Performance Sealed Lead Acid AGM Batteries
- PWM Solar Charge Controllers with PoE output
- Thermostatically Controlled Ventilation



RPS 100W
Solar System

Applications

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

Description

The RemotePro® 100W 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 advanced PWM solar controller provides the battery charging function, 24V or 48V 30W Passive or PoE+ output and a 12V 1.5A or 10A auxiliary output. 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 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 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.



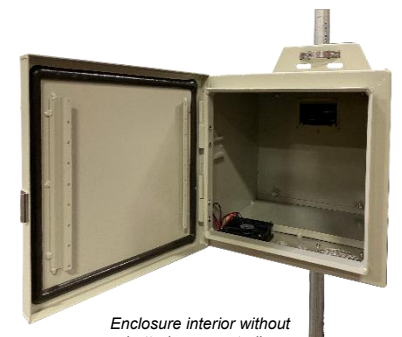
PWM-POE Solar Controller



PWM Solar Controller



AGM 12V Battery



Enclosure interior without
batteries or controller

Specifications

	RPS1224(G)-100-100	RPS1248-100-100	RPS12AT-100-100	RPS12-100-100
Rated Power Generation	21.5W continuous with 6hrs peak sun			
Reserve Time @ Rated Power	>35hrs			
12V Battery Capacity (Amp Hrs)	100Ah			
Load Out (DC)	24V Passive PoE @ 30W, 12V 1.5A Aux	48V Passive PoE @ 30W, 12V 1.5A Aux	48V 802.3at @ 30W & 12V 10A Wire Terminal	12V 20A Wire Terminal
Solar Controller Type	TP-SCPOE-1224 10A PWM-POE 10/100MB "1224G" 10/100/1000MB	TP-SCPOE-1248 10A PWM-POE 10/100MB	TS-SCPOE-12AT 10A PWM-POE 10/100/1000MB	TP-SC24-20 20A PWM
Battery Voltage (DC)	12VDC			
Battery Type	Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid AGM			
Battery Life	5+ years			
Bulk Charge	14.6 VDC			14.4 VDC
Float Charge	13.5 VDC			13.8 VDC
Over-discharge protection	11 VDC			11.1 VDC
Over-discharge recovery volts	12 VDC			12.6 VDC
Controller Self Consumption	<0.5W			<0.3W
Enclosure Type	ENC-AL-12x14x15 Pole/Wall Mount, Powder Coat Aluminum			
Enclosure Size	12 x 14 x 15" (305 x 356 x 381mm)			
Internal Mount Features	DIN Rail/Flat Plate Mounting Brackets Welded to Door and Sides			
Solar Panel Dims (LxWxT)	16 X 24.4 x 1.2" (405 x 620 x 30mm)			
Operating Temperature	-30°C to +60°C (-22°F to 140°F)			
System Weight (no batteries)	41 lb (19 kg)			
Battery Weight	80.6 lb (36.5 kg)			
Wind Speed Rating	90MPH			
Warranty	3 Years			

RPS 1224-100-100

<u>Enclosure Type</u>	<u>Battery Voltage/PoE</u>	<u>Storage Capacity</u>	<u>Solar Panel Output</u>
ST - Steel	12 - 12VDC 20A PWM	100 - 100Ah @ 12 Volts	100 - 100 Watt
STL - Large Steel	1224 - 12VDC, 24V PoE	200 - 200Ah @ 12 Volts	200 - 200 Watt
S - Small Aluminum	1248 - 12VDC, 48V PoE	400 - 400Ah @ 12 Volts	400 - 400 Watt
L - Large Aluminum	12/24M - 12/24V MPPT		
	12/48M - 12/24/48V		

System Ordering:

Model #	PoE Output	Backup Time	Battery Voltage	12V Battery Capacity	Solar Panel Size
RPS1224-100-100	Pasv 24V @ 30W	>35hrs	12 VDC	100Ah	100W
RPS1224G-100-100	Pasv 24V @ 30W	>35hrs	12 VDC	100Ah	100W
RPS1248-100-100	Pasv 48V @ 30W	>35hrs	12 VDC	100Ah	100W
RPS12AT-100-100	802.3at 48V @ 30W	>35hrs	12 VDC	100Ah	100W
RPS12-100-100	No PoE	>35hrs	12 VDC	100Ah	100W

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