



RemotePro® 85W Series

DATA SHEET

Outdoor Remote Power Systems

Features

- Complete 85W Remote Power Solution for Off-Grid Operation
- Weatherproof Aluminum Outdoor Enclosure with up to 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 85W
Solar System

Applications

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

Description

The RemotePro® 85W 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 PoE output and a 12V 1.5A 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 Advance 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

	RPS1224-100-85	RPS1248-100-85	RPS12-100-85
Rated Power Generation	17W 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	12V 20A Wire Terminal
Solar Controller Type	TP-SCPOE-1224 10A PWM-POE 10/100MB	TP-SCPOE-1248 10A PWM-POE 10/100MB	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)	31" x 27" x 1.4" (780 x 678 x 35mm)		
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 1224-100-85

Enclosure Type

ST - Steel
STL - Large Steel
S - Small Aluminum
L - Large Aluminum

Battery Voltage/PoE

12 - 12VDC 20A PWM
1224 - 12VDC, 24V PoE
1248 - 12VDC, 48V PoE
12/24M - 12/24V MPPT
12/48M - 12/24/48V MPPT

Storage Capacity

100 - 100Ah @ 12 Volts
200 - 200Ah @ 12 Volts
400 - 400Ah @ 12 Volts

Solar Panel Output

85 - 85 Watt
170 - 170 Watt
340 - 340 Watt
720 - 720 Watt

System Ordering:

Model #	Passive PoE Output	Backup Time	Battery Voltage	12V Battery Capacity	Solar Panel Size
RPS1224-100-85	24V @ 30W	>35hrs	12 VDC	100Ah	85W
RPS1248-100-85	48V @ 30W	>35hrs	12 VDC	100Ah	85W
RPS12-100-85	No PoE	>35hrs	12 VDC	100Ah	85W

For further information contact:

Tyconsystems.com



14641 S 800 W
Bluffdale, UT 84065
PH: 801-432-0003
FAX: 801-618-4220