



## 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.



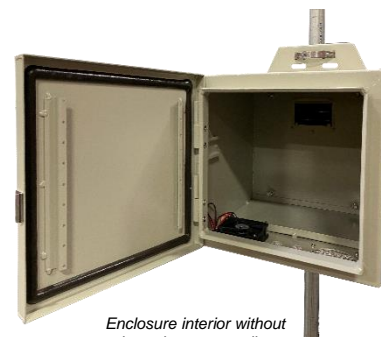
PWM-POE Solar Controller



PWM Solar Controller



AGM 12V Battery



Enclosure interior without  
batteries or controller

**Specifications**

	<b>RPS1224-100-85</b>	<b>RPS1248-100-85</b>	<b>RPS12-100-85</b>
<b>Rated Power Generation</b>	17W continuous with 6hrs peak sun		
<b>Reserve Time @ Rated Power</b>	>35hrs		
<b>12V Battery Capacity (Amp Hrs)</b>	100Ah		
<b>Load Out (DC)</b>	24V Passive PoE @ 30W, 12V 1.5A Aux	48V Passive PoE @ 30W, 12V 1.5A Aux	12V 20A Wire Terminal
<b>Solar Controller Type</b>	TP-SCPOE-1224 10A PWM-POE 10/100MB	TP-SCPOE-1248 10A PWM-POE 10/100MB	TP-SC24-20 20A PWM
<b>Battery Voltage (DC)</b>	12VDC		
<b>Battery Type</b>	Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid AGM		
<b>Battery Life</b>	5+ years		
<b>Bulk Charge</b>	14.6 VDC		14.4 VDC
<b>Float Charge</b>	13.5 VDC		13.8 VDC
<b>Over-discharge protection</b>	11 VDC		11.1 VDC
<b>Over-discharge recovery volts</b>	12 VDC		12.6 VDC
<b>Controller Self Consumption</b>	<0.5W		<0.3W
<b>Enclosure Type</b>	ENC-AL-12x14x15 Pole/Wall Mount, Powder Coat Aluminum		
<b>Enclosure Size</b>	12 x 14 x 15" (305 x 356 x 381mm)		
<b>Internal Mount Features</b>	DIN Rail/Flat Plate Mounting Brackets Welded to Door and Sides		
<b>Solar Panel Dims (LxWxT)</b>	31" x 27" x 1.4" (780 x 678 x 35mm)		
<b>Operating Temperature</b>	-30°C to +60°C (-22°F to 140°F)		
<b>System Weight (no batteries)</b>	41 lb (19 kg)		
<b>Battery Weight</b>	80.6 lb (36.5 kg)		
<b>Wind Speed Rating</b>	90MPH		
<b>Warranty</b>	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](http://Tyconsystems.com)