**TYCON** Solar®

## Outdoor Remote Power Systems

## Features

- **Complete 340W 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**

## Applications

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

*RPL 340W Solar System*

## Description

The RemotePro® 340W 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 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.

## 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<br>28.8V @ 24V Battery | 14.4V @ 12V Battery<br>28.8V @ 24V Battery<br>57.6V @ 48V Battery |
| *Float Charge* | 13.8V @ 12V Battery<br>27.6V @ 24V Battery | 13.8V @ 12V Battery<br>27.6V @ 24V Battery<br>55.2V @ 48V Battery |
| *Over-discharge protection* | 11.1V @ 12V Battery<br>22.2V @ 24V Battery | 11.1V @ 12V Battery<br>22.2V @ 24V Battery<br>44.4V @ 48V Battery |
| *Over-discharge recovery volts* | 12.6V @ 12V Battery<br>25.2V @ 24V Battery | 12.6V @ 12V Battery<br>25.2V @ 24V Battery<br>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<br>Pole/Wall Mount, Powder Coat Aluminum | ENC-STL-24x24x16<br>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)* | 340W Solar Array 62" x 54" x 1.4" (1575 x 1372 x 35mm) ||
| *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 controller*


*RPSTL 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-200-340 | Large Aluminum | 12/24V | 200Ah | 50W | >24hrs | 12/24 MPPT | 12/24V 20A | 340W |
| RPSTL12/24M-200-340 | Large Steel | 12/24V | 200Ah | 50W | >24hrs | 12/24 MPPT | 12/24V 20A | 340W |
| RPSTL12/24M-400-340 | Large Steel | 12/24V | 400Ah | 74W | >32hrs | 12/24 MPPT | 12/24V 20A | 340W |
| RPSTL12/48M-400-340 | Large Steel | 12/24/48V | 400Ah | 74W | >32hrs | 12/48 MPPT | 12/24/48V 30A | 340W |

## Part Number Definition:

**RPL 12/24M-200-340**

_Enclosure Type_
**S** - Small Aluminum
**L** - Large Aluminum
**STL** – Large Steel

_Battery Voltage.Ctrl Type_
**12/24** – 12/24V PWM
**12/24M** – 12/24V MPPT
**12/48M** – 12/24/48V MPPT

_12V Storage Capacity_
**100** - 100Ah
**200** - 200Ah
**400** – 400Ah

_Solar Panel Output_
**85** – 85 Watt
**170** – 170 Watt
**340** – 340 Watt



_340W Solar Mount_

## Available Accessories



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



_TP-SC-WIFI   WiFi Adapter for MPPT_

## For further information contact:
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**RoHS** compliant

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