TYCON Solar™

RPDC12-9-xx
RemotePro®
Remote Power System

- Wireless Base Stations and Client Devices

- Surveillance Cameras

- Remote Sensors

- Remote Lighting

Congratulations! on your purchase of the RemotePro® off-grid remote power system. Please take a moment to review this Qwik Install Guide before assembly or battery installation.

STOP

DANGER! Avoid Powerlines!
You Can Be Killed!

When following the instructions in this guide take extreme care to avoid contact with overhead power lines, lights and power circuits. Contact with power lines, lights or power circuits may be fatal. We recommend to install no closer than 20 feet to any power lines.

Safety: For your own protection, follow these safety rules.

- **Perform as many functions as possible on the ground**
- **Do not attempt to install on a rainy, windy or snowy day or if there is ice or snow accumulation at the install site or if the site is wet.**
- **Make sure there are no people, pets, etc. below when you are working on a roof or ladder.**

Recommended Tools: Phillips Screwdriver, 3mm Allen Wrench, 8mm and 14mm Open End Wrench

Please help preserve the environment and return used batteries to an authorized depot
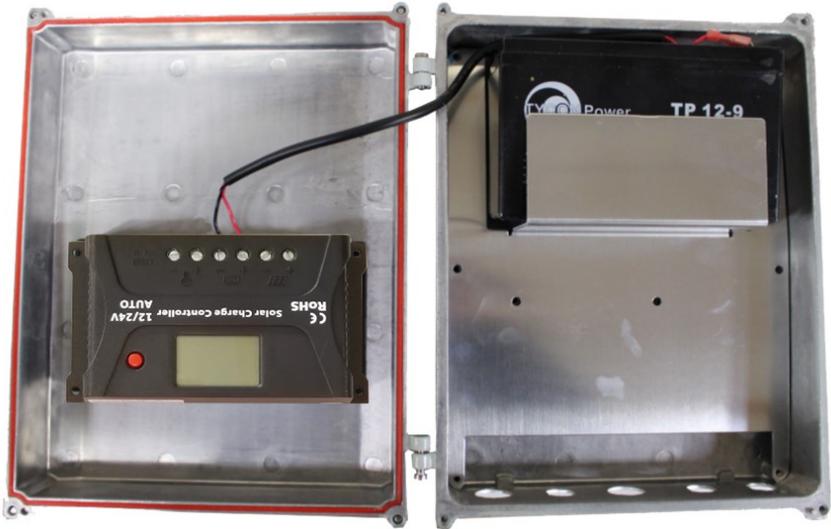
Qwik Install

STEP 0: Mount the solar panel to the bracket and to the pole. It's best to mount so that the solar panel shades the enclosure.

STEP 1: Connect the Battery to Controller BAT terminals. Be sure to observe polarity. Black wire connects to battery negative terminal and BAT(-) terminal on the controller. When a fully charged battery is connected, the Green LOAD LED should light on controller.

STEP 2: Install battery to enclosure with battery terminals on right. Install metal plate using 8 screws.

STEP 3: Install Cable Feedthru into center hole in bottom of enclosure. Feedthru gasket is on outside of enclosure and nut inside. Tighten nut.

OPTION: add a drop of threadlocker to the nut to prevent accidental loosening.

STEP 4: Install two bracket pieces to the back of enclosure using 4 screws. Bracket can be used for wall mounting or pole mounting.

STEP 5: Wire solar panel to the controller solar inputs. Observe proper polarity. The solar panel should be facing South if in Northern Hemisphere. Face North if in southern hemisphere.

STEP 6: Mount any electronics boards to the metal plate. Connect your load to the controller LOAD output.

On the bottom of the enclosure there are two double D cutouts for standard N Female bulkhead connectors which can be used for an external antenna or RF device. Just remove the hole plug to use this cutout.

STEP 7: Tighten the RJ45 Feedthru on the cable. If the cable diameter is too small to make a good seal, wrap a couple turns of electrical tape around the CAT5 cable at the seal area to increase it's diameter.

STEP 8: Make sure lid gasket is clean and free from any particles, then carefully close the cover, making sure that wires are clear of the seam and hinge area.

STEP 9: Tighten the 4 seal screws evenly to seal the cover. Use a grease or oil on the 4 cover attached screws to make it easier to remove later.

SPECIFICATIONS

Subject to change without notice

Continuous Power Rating	1.25W or 2.5W
Reserve Power @ Rated Load	72 or 36 Hours
Battery Voltage (DC)	12V
Load Output Voltage (DC)	12V
Battery Capacity	9Ah
Battery Type	Valve Regulated Sealed Lead Acid / Absorbent Glass Mat (AGM)
Battery Life	5 Years
Controller Type	12V 20A PWM *Max Solar Panel Size 85W*
Overcharge Protection	14.4V
Over-discharge protection	11V
Over-discharge recovery voltage	12.4V
Controller Self Consumption	<10mA
Enclosure Type	Die Cast Aluminum
Enclosure External Size	11 x 8.5 x 3.5" (279 x 216 x 89mm)
Enclosure Internal Size	10 x 7.75 x 3" (254 x 197 x 76mm)
Space for Customer Electronics	7.75 x 5 x 1.25" (197 x 127 x 32mm)
Operating Temperature	-30°C to +60°C
System Weight (without batteries)	12lb (5.4kg)
Battery Weight (each)	5.5lb (2.5kg)

TECH CORNER

Additional Information you may find useful

1. **CONTROLLER:** The controller turns off power to the load at 11V and reconnects when the battery reaches 12V. This protects battery from over-discharge and increases battery life and performance.

2. **CAPACITY:** The RemotePro® RPDC12-9-10 is rated at 2.5W continuous power output with 6 hours of peak sun per day. Reserve battery capacity at 2.5W load is 36 hours. The RPDC12-9-05 is rated at 1.25W continuous power.

3. **VENTING:** The enclosure is vented thru a Goretex Vent in the bottom of the enclosure. Don't cover this vent.

Limited Warranty

The RemotePro® products are supplied with a limited 36 month warranty which covers material and workmanship defects. This warranty does not cover the following:

▫ Parts requiring replacement due to improper installation, misuse, poor site conditions, faulty power, etc.
▫ Lightning or weather damage.
▫ Physical damage to the external & internal parts.
▫ Products that have been opened, altered, or defaced.
▫ Water damage for units that were not mounted according to user manual.
▫ Usage other than in accordance with instructions and the normal intended use.