

## Outdoor Remote Power Systems

### Features

- Complete Remote Power Solution for Off-Grid operation
- Weatherproof, UV resistant, outdoor enclosures
- Generous interior space for customer electronics
- Enclosures can be Wall or Pole Mounted
- High Performance Valve Regulated Sealed Lead Acid Batteries
- Advanced battery charge controller protects against overcharge and over discharge

### Applications

- Wireless Base Stations and Clients
- Surveillance Cameras
- Wireless Bridge and Repeaters
- Remote Sensors
- Remote Lighting
- Backup Power Systems

### Description

The RemotePro™ series outdoor power systems are designed for applications that require a primary off-grid power source to run various electronics. The sealed and weatherproof enclosures have a generous amount of space inside and a removable mounting plate for mounting all types of customer electronics.

All enclosures are hinged and gasket sealed. The PL enclosure can accept a padlock or tamper seal. The ST enclosure is equipped with 2 tamper proof closures that are operated by a special key (included).

The enclosures can be mounted to a wall or pole with the included mounting bracket system.

The high quality solar panels have a 25year power output guarantee. The 5W and 10W solar panels are mounted directly to the DC enclosure saving space and making a more convenient assembly. The larger solar panels can be mounted to a 2" to 4" diameter pole or alternately to a wall with the included bracket kit.

Features include an advanced battery charge controller to protect against over-charging or over-discharging of the valve regulated sealed lead acid batteries. Most of the PL and ST systems include a controller with built in POE inserter and DCDC converter to supply up to 48V POE from the 12V battery system. Enclosures have multiple ports for CAT5 cable, antenna cables/connectors or other cabling. They are vented to prevent residual buildup of hydrogen gas.

Batteries in the DC and PL enclosures are an Advance Glass Matt (AGM) type which have good all temperature performance. The ST enclosure uses a high performance GEL battery which gives the best available deep discharge and temperature performance.



**Specifications**

	RPDC12-9-05	RPDC12-9-10	RPPL12xx-36-30	RPPL2424-18-30	RPST12xx-100-60	RPST12xx-100-85	RPST24xx-50-85	RPST12xx-100-120	RPST24xx-50-120	RPST24xx-100-240	RPST12-200-240	RPST24-100-240
Rated Power Generation	1.25W	2.5W	8W	8W	15W	20W	20W	30W	30W	50W	50W	50W
Reserve Time @ Rated Power	40hrs	21hrs	27hrs	27hrs	40hrs	30hrs	30hrs	20hrs	20hrs	24hrs	24hrs	24hrs
POE Output Voltage (DC)	No POE Out		12V1A 18V1.7A 24V1.2A 48V.62A	24V 1A	12V1A 18V1.7A 24V1.2A 48V.62A		24V 1A 48V .62A	12V1A 18V1.7A 24V1.2A 48V.62A	24V 1A 48V .62A		No POE Out	
Secondary Voltage Out (DC)	12V 10A		12V 1.5A	24V 1.5A	12V 1.5A		24V 1.5A	12V 1.5A	24V 1.5A		12V 15A	24V 10A
Battery Capacity (Amp Hours)	9Ah		36Ah	18Ah	102Ah		51Ah	102Ah	51Ah	102Ah	200Ah	102Ah
Battery Voltage (DC)	12V			24V	12V		24V	12V	24V		12V	24V
Battery Type	Valve Regulated Sealed Lead Acid / Absorbent Glass Mat (AGM)				Valve Regulated Sealed Lead Acid GEL							
Battery Life	5 Years											
Controller Type	PWM		Dual Input: Solar/POE, Dual Output: Battery Voltage/POE with DCDC Converter								PWM	
Overcharge Protection	14.4V			28.6V	14.4V		28.6V	14.4V	28.6V		14.4V	28.6V
Over-discharge protection	11.0V			22.0V	11.0V		22.0V	11.0V	22.0V		11.0V	22.0V
Over-discharge recovery volts	12.0V			24.8V	12.0V		24.8V	12.0V	24.8V		12.0V	24.8V
Controller Self Consumption	<0.5W											
Enclosure Type	Die Cast Aluminum		Polycarbonate		Powder Coat Steel							
Enclosure External Size	11 x 8.5 x 3.5" (279x216x89mm)		17.5 x 12.5 x 6" (445x318x152mm)		24 x 15 x 14" (610 x 381 x 356mm)							
Enclosure Internal Size	10 x 7.75 x 3" (254x197x76mm)		14 x 10 x 5" (356x254x127mm)		23 x 14 x 12" (584 x 356 x 305mm)							
Space available for Customer Electronics	7.75 x 5 x 1.25" (197x127x32mm)		7 x 7 x 4" (177x177x102mm)		12 x 12 x 12" (305 x 305 x 305mm)					3" X 10" X 20" (76 X 254 X 508mm)		
Solar Panel Dims	11" X 9"	14"X12"	21" X 20"		30" X 25"	42" X 25"		59" X 25"		59" X 50"		
Operating Temperature	-30°C to +60°C (-22°F to 140°F)											
System Weight (no batteries)	10lb (4.5kg)		22lb (10kg)		84lb (38kg)			101lb (46kg)		142lb (64kg)		
Battery Weight	5.5lb (2.5kg)		22lb (10kg)		78lb (35kg)					156lb (71kg)		



RemotePro™  
DC Series



RemotePro™  
ST Series



**System Ordering:**

Model #	Continuous Power Generation	Enclosure Type	Battery Voltage	POE Output Voltage	Battery Capacity	Solar Panel Size
RPDC12-9-05	1.25W	Die Cast	12VDC	---	9Ah	5W
RPDC12-9-10	2.5W	Die Cast	12VDC	---	9Ah	10W
RPPL1212-36-30	8W	Polycarbonate	12VDC	12VDC	36Ah	30W
RPPL1218-36-30	8W	Polycarbonate	12VDC	18VDC	36Ah	30W
RPPL1224-36-30	8W	Polycarbonate	12VDC	24VDC	36Ah	30W
RPPL1248-36-30	8W	Polycarbonate	12VDC	48VDC	36Ah	30W
RPPL2424-18-30	8W	Polycarbonate	24VDC	24VDC	18Ah	30W
RPST1212-100-60	15W	Steel	12VDC	12VDC	102Ah	60W
RPST1218-100-60	15W	Steel	12VDC	18VDC	102Ah	60W
RPST1224-100-60	15W	Steel	12VDC	24VDC	102Ah	60W
RPST1248-100-60	15W	Steel	12VDC	48VDC	102Ah	60W
RPST1212-100-85	20W	Steel	12VDC	12VDC	102Ah	85W
RPST1218-100-85	20W	Steel	12VDC	18VDC	102Ah	85W
RPST1224-100-85	20W	Steel	12VDC	24VDC	102Ah	85W
RPST1248-100-85	20W	Steel	12VDC	48VDC	102Ah	85W
RPST2424-50-85	20W	Steel	24VDC	24VDC	51Ah	85W
RPST2448-50-85	20W	Steel	24VDC	48VDC	51Ah	85W
RPST1212-100-120	30W	Steel	12VDC	12VDC	102Ah	120W
RPST1218-100-120	30W	Steel	12VDC	18VDC	102Ah	120W
RPST1224-100-120	30W	Steel	12VDC	24VDC	102Ah	120W
RPST1248-100-120	30W	Steel	12VDC	48VDC	102Ah	120W
RPST2424-50-120	30W	Steel	24VDC	24VDC	51Ah	120W
RPST2448-50-120	30W	Steel	24VDC	48VDC	51Ah	120W
RPST12-200-240	50W	Steel	12VDC	---	204Ah	240W
RPST24-100-240	50W	Steel	24VDC	---	102Ah	240W
RPST2424-100-240	50W	Steel	24VDC	24VDC	102Ah	240W
RPST2448-100-240	50W	Steel	24VDC	48VDC	102Ah	240W

**RPST 12 48-100-60**Enclosure Type

DC - Die Cast Aluminum  
 PL - Polycarbonate Plastic  
 ST - Powder Coat Steel

Battery Voltage

12 - 12V  
 24 - 24V

POE Out Voltage

12 - 12V  
 18 - 18V  
 24 - 24V  
 48 - 48V

Storage Capacity

9 - 9Ah  
 36 - 36Ah  
 50 - 51Ah  
 100 - 102Ah

Solar Panel Output

05 - 5 Watt  
 10 - 10 Watt  
 30 - 30 Watt  
 60 - 60 Watt  
 85 - 85 Watt  
 120 - 120 Watt  
 240 - 240 Watt

**Notes:**

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems RemotePro™ systems carry a 2 year limited warranty.

**For further information contact:**[Tyconpower.com](http://Tyconpower.com)