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## Outdoor UPS Systems

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### Features

- Weatherproof, UV resistant, outdoor enclosures**
- Powered over CAT5 cable using POE and/or Solar**
- Generous interior space for customer electronics**
- Wall or Pole Mounting**
- Isolates Customer Equipment from Power Line Surges**
- High Quality AGM VR Sealed Lead Acid Batteries**
- Advanced battery charge controller protects against overcharge and over discharge**



UPSPro™  
Die Cast Enclosure

### Applications

- |   |                             |
|---|-----------------------------|
| <b>Wireless Base Stations and Clients</b> | <b>Surveillance Cameras</b> |
| <b>Wireless Bridge and Repeaters</b>      | <b>Remote Sensors</b>       |
| <b>Mission critical outdoor power</b>     | <b>Backup Power Systems</b> |



UPSPro™  
Polycarbonate Enclosure

### Description

The UPSPro™ series outdoor enclosures are designed for applications that require a backup power source in order to maintain uninterrupted service to customers. The enclosure is powered over a CAT5 network cable via Power Over Ethernet (POE) using a POE Supply/Inserter (included). Features include an advanced battery charge controller to protect against over-charging or over-discharging of the valve regulated sealed lead acid AGM batteries. Enclosures have multiple ports for CAT5 cable, antenna cables/connectors or other cabling. They are vented to prevent residual buildup of hydrogen gas.

There is a generous amount of space reserved inside the enclosures for customer electronics such as controllers, wireless AP or CPE cards, sensors, inverters, etc. Equipment runs on battery power which isolates it from power line surges which is a main cause of outdoor equipment failure.

Models are equipped with a Solar Ready controller so they can also be powered using solar panels in addition to or instead of the POE power supply.

Multiple configurations are available for 12V or 24V systems with various battery storage capacities.

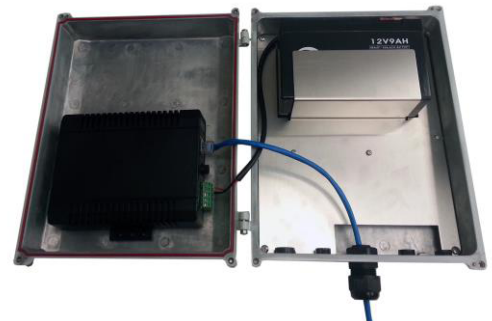
A typical 250mW wireless access point with average power consumption of 3.5W will run 26 hours on a 9Ah battery at room temperature or 17 hours at -20 deg C.

## Specifications

	UPS-DC12xx	UPS-PL12xx	UPS-PL24xxHP
POE Output Voltages Available (DC)	12V, 18V, 24V, 48V		24V and 48V
Available Capacities (Amp Hours)	9Ah	18Ah, 36Ah	9Ah, 18Ah
Total Output Power	30W	30W	60W
Maximum POE Input Voltage	57V		
Battery Voltage (DC)	12V		24V
Battery Type	Valve Regulated Sealed Lead Acid / Absorbent Glass Mat (AGM)		
Battery Life	5 Years		
Controller Type	Dual Input Solar/POE, PWM, 12V 8A Max Solar Panel Size 135W		Dual Input Solar/POE, PWM, 24V 8A Max Solar Panel Size 270W
Overcharge Protection	14.4V		28.6V
Over-discharge protection	11.0V		22.0V
Over-discharge recovery voltage	12.0V		24.0V
Controller Self Consumption	<0.5W		
Charging POE Power Supply	120/220VAC In ; 24VDC 60W Out		120/220VAC In ; 48VDC 60W Out
Enclosure Type	Die Cast Aluminum	Polycarbonate	
Enclosure External Size	11 x 8.5 x 3.5" (279 x 216 x 89mm)	17.5 x 12.5 x 6" (445 x 318 x 152mm)	
Enclosure Internal Size	10 x 7.75 x 3" (254 x 197 x 76mm)	14 x 10 x 5" (356 x 254 x 127mm)	
Space available for Customer Electronics	7.75 x 5 x 1.25" (197 x 127 x 32mm)	3 x 5 x 3" (76 x 127 x 76mm)	
Operating Temperature	-30°C to +60°C (-22°F to 140°F)		
System Weight (without batteries)	4lb (1.8kg)		
Battery Weight (each)	5.5lb (2.5kg)		



UPSPro™ Polycarbonate Enclosure System



UPSPro™ Die Cast Enclosure System

**System Ordering:**

Model #	Enclosure Type	Battery Voltage	POE Output Voltage	Battery Capacity	Solar Ready up to 135W Panel
UPS-DC1212-9	Die Cast	12VDC	12VDC	9Ah	YES
UPS-DC1218-9	Die Cast	12VDC	18VDC	9Ah	YES
UPS-DC1224-9	Die Cast	12VDC	24VDC	9Ah	YES
UPS-DC1248-9	Die Cast	12VDC	48VDC	9Ah	YES
UPS-PL1212-18	Polycarbonate	12VDC	12VDC	18Ah	YES
UPS-PL1218-18	Polycarbonate	12VDC	18VDC	18Ah	YES
UPS-PL1224-18	Polycarbonate	12VDC	24VDC	18Ah	YES
UPS-PL1248-18	Polycarbonate	12VDC	48VDC	18Ah	YES
UPS-PL1212-36	Polycarbonate	12VDC	12VDC	36Ah	YES
UPS-PL1218-36	Polycarbonate	12VDC	18VDC	36Ah	YES
UPS-PL1224-36	Polycarbonate	12VDC	24VDC	36Ah	YES
UPS-PL1248-36	Polycarbonate	12VDC	48VDC	36Ah	YES
UPS-PL2424HP-9	Polycarbonate	24VDC	24VDC	9Ah	YES
UPS-PL2424HP-18	Polycarbonate	24VDC	24VDC	18Ah	YES
UPS-PL2448HP-9	Polycarbonate	24VDC	48VDC	9Ah	YES
UPS-PL2448HP-18	Polycarbonate	24VDC	48VDC	18Ah	YES

**Part Number Definition:****UPS-DC 12 48-9**Enclosure Type

DC - Die Cast Aluminum  
PL - Polycarbonate Plastic

Battery Voltage

12 - 12V  
24 - 24V

POE Out Voltage

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

Storage Capacity

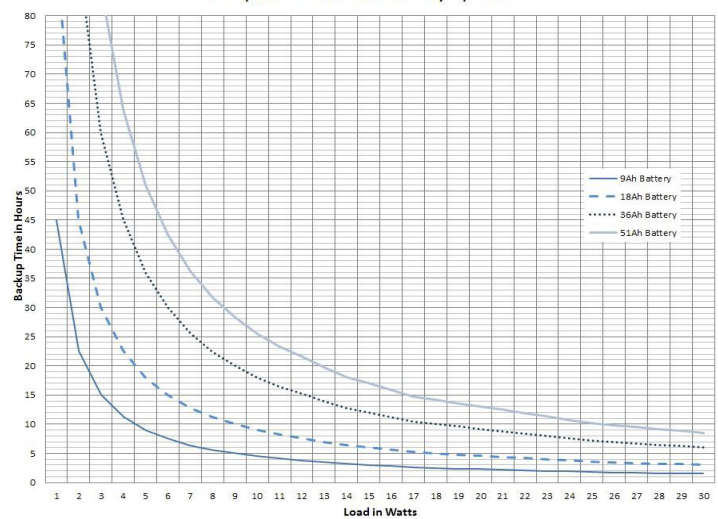
9 - 9Ah  
18 - 18Ah  
36 - 36Ah

**Notes:**

All shipments F.O.B. Draper, UT 84065  
Tycon Power Systems Outdoor UPS carry a 2 year limited warranty

**UPSPro™**

Backup Time vs Load - Various Battery Capacities



**Streakwave**

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