



UPS-ST2424-UBNT

DATA SHEET

Outdoor UPS System

Features

- 60W Maximum Continuous Output
- 4 Switched 24VDC PoE Ports, 1 Data Uplink Port
- Designed Specifically for Ubiquiti and Mikrotik Applications
- Isolates Equipment from Power Line Surges
- High Performance GEL Sealed Lead Acid Batteries
- Choice of 51Ah (20hrs backup) or 102Ah (40hrs backup) Battery
- Operating Temperature -30C to +60C
- Weatherproof Nema 4X / IP65, UV Resistant, Locking Outdoor Enclosure

Applications

- Ubiquiti Base Stations
- Mikrotik Base Stations
- Security Applications
- 24VDC PoE Equipment

Description

The UPSPro® UBNT outdoor UPS system is designed specifically for 24VDC PoE equipment like that from Ubiquiti, Mikrotik, Tranzeo, etc. The system provides up to 60W of continuous total DC power on 4 switched power over Ethernet (PoE) ports. There is also a data uplink port if an external data connection is desired. The system is powered over Ethernet cable from an included 150W AC to DC power supply with PoE inserter.

The system is also Solar Ready™ so an optional solar panel kit (*TPSK24*) can be added anytime to make a complete standalone remote power system or utilize the solar capacity to extend the backup time. The proprietary charge controller maintains the proper charge on the batteries to prevent over charge and controls the load to prevent over-discharge.

The weatherproof enclosure with security locks has multiple ports for CAT5 cable, solar and other cabling. It is vented to prevent residual buildup of any hydrogen gas. The included bracket kit allows for the enclosure to be pole mounted or wall mounted. The systems are rated to operate over a wide temperature range of -30C to +60C.

There are 3 system configurations available: 51Ah Battery capacity for 20hours backup time, 102Ah battery capacity for 40 hours backup time and also a system without batteries for those customers who want to use their own sealed lead acid type batteries. Battery life on the high performance GEL cells is rated at 5 years. Typical recharge time from a full discharge is 20 hrs for the 51Ah battery and 40 hrs for the 102Ah battery. Recharge times will be faster with optional solar panel kits and depending on size of panel used.

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. The standard component layout is designed for ease of maintenance.

Equipment runs on battery power which isolates it from power line surges which is a main cause of outdoor equipment failure.



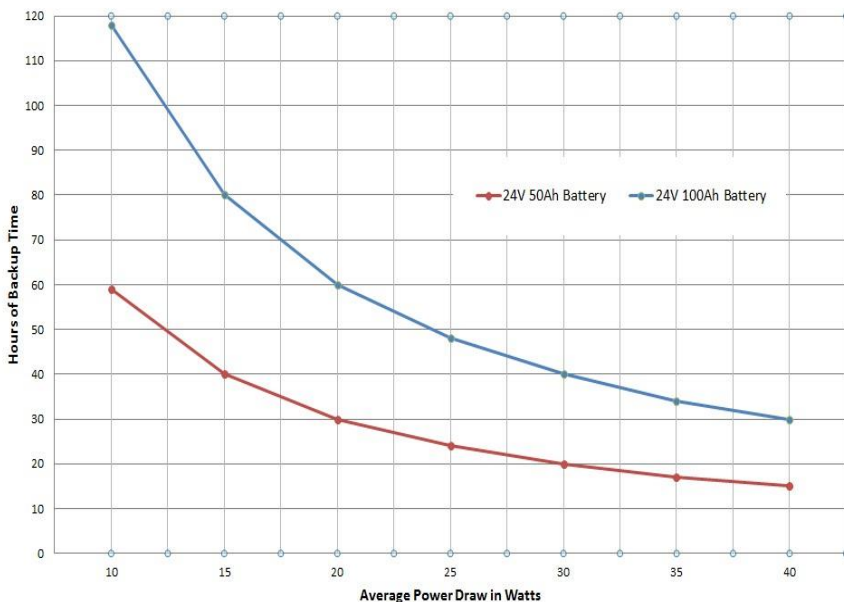
Specifications

	UPS-ST2424-50-UBNT	UPS-ST2424-100-UBNT
Battery Capacity	24VDC 51Ah	24VDC 102Ah
System Power Output	60W Continuous	
POE Power Supply Input Voltage	100-270VAC 47-63Hz	
POE Power Supply Output Voltage	48VDC @ 3A	
Controller Solar Input	8A Max (270W 24VDC Panel)	
Overcharge Protection	28.6 +/- 0.3V	
Over-discharge protection	Load Off: 20.0 +/-0.3V	Load On: 22.3 +/-0.3V
Other Protection	Short Circuit, Reverse Battery	
POE Switch Output	4 POE Ports, 20 to 24.5VDC @ Max 2A per port, Shielded RJ45	
POE Switch	10/100Mb IEEE802.3/IEEE802.3u Auto Crossover	
POE Protection	Over Temperature, Over Current, Short , Over/Under Voltage, Surge	
System Self Consumption	<1.5W	
Battery Type	Non Spillable Sealed Lead Acid GEL	
Battery Life (TYPICAL)	5 Years	
Enclosure Type	Powder Coated Steel, Security Locks, Pole (2" to 4") or Wall Mount	
Enclosure External Size	24 x 15 x 14" (610 x 381 x 356mm)	
Enclosure Internal Size	23 x 14 x 12" (584 x 356 x 305mm)	
Operating Temperature	-30°C to +60°C (-22°F to 140°F)	
System Weight (without batteries)	55lb (25kg)	
Battery Weight	37lb (17kg) each x 2	37lb (17kg) each x 4

Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Solar™ Outdoor UPS carry a 3 year limited warranty

Backup Time vs Average Power Draw



DIN Rail Mounted Controller / Switch



PoE Power Supply/Inserter

System Ordering:

UPS-ST2424-50-UBNT *UPSPro®* 60W 20hr backup systems, 4 switched 24VDC PoE ports, 51Ah 24V battery, Solar Ready™

UPS-ST2424-100-UBNT *UPSPro®* 60W 40hr backup systems, 4 switched 24VDC PoE ports, 102Ah 24V battery, Solar Ready™

UPS-ST2424-NB-UBNT *UPSPro®* 60W 20hr backup systems, 4 switched 24VDC PoE ports, NO BATTERY, Solar Ready™



Available Solar Kits include High Efficiency Solar Panel, Pole Mount and 12AWG cable

Solar Kits	6 Hours Peak Sun	3 Hours Peak Sun
TPSK24-85W	20W continuous	10W continuous
TPSK24-120W	30W continuous	15W continuous
TPSK24-240W	60W continuous	30W continuous



Consider a wind turbine as uptime insurance.

TPW-400N-24 400W 24VDC Wind Turbine

Ubiquiti Power Requirements

Rocket	6.5W
Rocket GPS	8W
Nanostation 2	4W
Nanostation 5	5W
NanoBridge M9	6.5W
NanoBridge M2,M5	5.5W
NanoBridge M3, M365	8W
Bullet M2	7W
Bullet M5	6W
Picostation M HP	8W
PowerBridge	8W
AirGrid M HP	3W
Aircam	2.4W
Aircam Dome	3.5W
Aircam Mini	3W



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