

Outdoor UPS

Dc output

Wide temperature batteries

Wide ac input voltage window

Outdoor UPS model

8229A

120 watts
120 vac
input voltage
range is
95–140 vac
output is
12 vdc
5 hours @ 60W
-10° to +50 °C;
-40° to +50 °C
with optional
battery heater

8229B

10 hours @ 60W

Outdoor UPS with 12 vdc output for powering outdoor eMTA platforms for multi-dwelling business and residential customers

TSi Power's OutdoorUPS-8229 is designed to provide cable operators with an alternative to HFC power for applications where the expense of upgrading HFC power is not economically justified.

It is constructed with wide temperature batteries, and housed in a weather protected NEMA-3R enclosure.

Key Outdoor UPS benefits

- Provides up to 10 hours of back-up (typical load) to support life-line telephone service
- Reduced power engineering costs
- Reduced installation costs
- Complies with CableLabs alarm interface specifications
- Rugged outdoor design
- Well-protected against surge voltages
- Wide input voltage window increases battery life

Typical applications

- Existing 90 vac HFC UPS close to load limit
- Long coaxial cable runs
- No HFC power available



Key system features

- Full weather outdoor protection NEMA-3R metal cabinet is designed for wall mounting next to O-eMTA unit
- Designed for Agbay short length barrel lock
- 12 vdc out from 95–140 vac input
- Wide temperature gel batteries
- Temperature compensated battery charger based on actual battery temperature for long battery life
- Heavy-duty 40mm MOV surge protection and noise filtering
- Optional battery heater
- Four alarm signals available through four normally open relay contacts:
 1. Low battery
 2. Ac fail
 3. Replace battery
 4. Missing battery
- Two year warranty on electronics
Manufacturer's battery warranty



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Outdoor UPS



Outdoor dc output UPS with a wide ac input voltage window and extreme/wide temperature batteries

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Specification	OutdoorUPS-8229A	OutdoorUPS-8229B
Electrical		
Capacity in watts	120 watts maximum output	
UPS topology	Ac-dc rectifier, battery charger and sealed wide temp. gel-cell batteries	
Input		
Nominal voltage	115 volts ac	
Operating voltage	95-140 vac without using batteries	
Input current	5 amperes maximum @ 95 vac	
Operating frequency	50 or 60 Hz (47- 63 Hz)	
Ac connections	3 pin screw terminal block (for line, neutral and ground ac input wires)	
Surge protection	Three stage, gas-tube based with inductor, capacitor and 40mm MOV	
Output		
Nominal voltage	12 volts dc	
Voltage range	9.6-14.5 volts dc (depending on battery charge status)	
Output current	10 amperes maximum @ 12 vdc (120 watts maximum)	
Power efficiency	86% (typical)	
Power on/off switch	On/off rocker style power switch	
Transfer time to backup	Zero transfer time	
Battery backup time	5 hours @ 60 watts(5A) load	10 hours @ 60 watts(5A) load
Recharge time	8 hours	16 hours
Batteries	Wide temperature rated -40° to +60°C (-40° to+140°F) sealed gel-cell (lead-acid), 12 volts dc. 31 ampere hours 62 ampere hours	
Battery heater (optional)	Thermostat controlled, 34 watts battery heater to keep batteries warm when air temperature drops below 5°C (41°F).	
Battery charger	8.75 amperes, microprocessor controlled, proprietary temperature compensated smart charger; will automatically adjust battery charging voltage for optimum charge level and battery life depending on actual battery temperature (charge voltage varies from 12.75 to 14.5 volts depending on battery temperature).	
Status indicator LEDs	Three LEDs indicate status of ac input, battery charger and dc output.	
Alarm signals	Four relay contacts provided on five pin terminal block send AC FAIL, BATTERY LOW, REPLACE BATTERY and MISSING BATTERY status signals. Normally open relay contact closes when an event occurs. (5th pin is the common contact of all four relays).	
Dc connections	2 pin terminal block (marked as + and -).	
Physical		
Dimensions	556mm(21.88") high x 406mm(16") wide x 213mm(8.38") deep	
Weight	29 kg (63 lbs)	39 kg (86 lbs)
Steel cabinet	Wall-mountable full weather, with screened vents, NEMA 3R lockable enclosure for both indoor and outdoor installations.	
Mounting options	Wall mountable	
Accessories		
Cable assemblies	For Innomedia: PSD-ZZ00289; for Motorola: PSD-W200288	
Environmental		
Operating temperature w/battery heater option	-10° to +50°C (14° to+122°F) ambient air temperature. -40° to +50°C (-40° to+122°F) with optional battery heater.	
Operating altitude	From 0-3000 meters (0-9,842 ft.) above sea level without derating.	
Agency Compliance and Warranty		
Agency compliance	cETLus listed in accordance with UL 60950-1, UL 1778 and CAN/CSAC22.2 No. 60950-1-07. FCC part 15 Class B. RoHS compliant, per EU Directive 2002/95/EC.	
Warranty	Two year limited warranty, parts and labor. Mfgr.'s battery warranty.	



Outdoor-UPS-8229A/B at a glance

Heavy-duty outdoor on-line UPS with dc output, wide ac input voltage window, and wide temperature batteries designed especially for powering and protecting cable TV, wireless communications, security/CCTV and industrial equipment

- 120 watts output
- Wide ambient temperature range sealed gel-cell batteries:
-10° to +60°C (14° to +140°F); or
-40° to +60°C (-40° to +140°F)
with optional thermostat controlled battery heater
- 12 vdc battery bus for maximum reliability. 8229A is one battery and 8229B is two batteries
- Temperature compensated battery charge maximizes useful battery life
- Backup time at a 60 watts load:
OutdoorUPS-8229A: 5 hours
OutdoorUPS-8229B: 10 hours
- Nominal 12 volts dc (output range 9.6–14.5 vdc) from 95–140 vac input
- Weather protected NEMA-3R gray powder coated, UV resistant, aluminum cabinet
- Four alarm signal relay contacts
- Complies with CableLabs alarm interface specifications
- Three status LEDs are provided



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