



Dc output | Wide temperature batteries | Wide ac input voltage window

Outdoor
DcUPS models

250-6070

250 watts

Input: 115 vac

Output: 48 vdc

1 hour @ 250W

-10° to +50°C;

-40° to +50°C

with optional
battery heater

Pole-mount UPS with dc output and wide temperature batteries

The TSi Power Outdoor-DcUPS-250-6070 with dc output is for pole mounted dc powered applications needing backup power in extreme weather conditions. It incorporates AGM wide temperature batteries and is housed in a weather protected NEMA-3R enclosure. It provides a wide input voltage range (95– 140 vac) with heavy duty surge protection and noise filtering, and delivers a nominal 48 vdc output.

Key Outdoor Dc UPS benefits

This rugged outdoor dc output UPS design is suitable for use in severe environments. This unit provides backup power and support for DAS, radio heads and security systems.

Outdoor UPS extreme/wide temperature batteries allow operation of the UPS system over an ambient temperature range of -10° to +50°C (14° to +122°F); -40° to +50°C (-40° to +122°F) with optional two 34W battery heater pads.

The wide input voltage window enables dc output without having to drain or exercise the batteries, thereby ensuring long battery life.

1 hour battery backup time with a 250W load.

How the outdoor dc UPS works

The outdoor UPS with dc output provides extended battery backup through a system which takes nominal 115 vac input (from 95– 140 vac), converts it to dc, charges the batteries, and delivers a nominal 48 vdc. Heavy duty surge protection and noise filtering on the ac input helps protect the unit and load from transient surges on the line.



Typical applications

These heavy duty outdoor UPS systems are designed to power wireless communications, perimeter surveillance cameras (CCTV), radio heads, repeaters and DAS.

Key outdoor UPS features

- Tall and thin pole mountable design
- Full weather outdoor protection NEMA-3R metal cabinet
- Wide temperature batteries
- Heavy-duty surge protection and noise filtering
- Wide ac input voltage window lengthens battery life
- Two year limited warranty on electronics, parts and labor; manufacturer's warranty on batteries

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Outdoor DcUPs



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

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Specification	Outdoor-DcUPs-250-6070
Electrical	
Capacity in watts	250 watts
UPS topology	Ac – dc rectifier, battery charger and wide temperature batteries
Input	
Nominal voltage	115 volts ac
Operating voltage	95–140 vac without using batteries
Input current	8 amperes maximum @ 115 vac
Operating frequency	60 Hz +/-5%
Surge protection	Heavy duty surge protection and filtering on ac input
Circuit breaker	10 amperes
Output	
Nominal voltage	48 volts dc
Output current	5.2 amperes maximum
Power efficiency	Ac line mode: >88%; in backup mode: >99%
Transfer time to backup	0 ms
Fuse	7 amperes
Battery backup time	1 hour at a 250 watts load (with user supplied batteries)
Battery recharge time	8 hours to 90% capacity after full discharge
Batteries	Four sealed 12 vdc suspended electrolyte, valve-regulated, lead-acid, maintenance free (sold separately) NP 12-12 Yuasa batteries. Capacity is 12 ampere hours @ 20 hours rate per battery. Bus voltage is 48 vdc. Weight per battery is 4.05 kg (8.9 lbs). Battery dimensions: 151 mmL x 98 mmW x 97.5 mmH (5.94”L x 3.86”W x 3.84”H). Temperature ratings: Charge: -15° to +50°C (5° to+122°F) Discharge: -20° to +60°C (-4° to+140°F) Storage: -20° to +50°C (-4° to+122°F).
Battery heater pads	(Two are required) 34 watts each
Battery fuse	15 amperes
Ac connections	3 position terminal block provided for 3 x 1mm ² (18AWG), L1, L2 and Ground connections through bottom of enclosure.
Dc connections	2 position terminal block for dc output wires, through enclosure bottom.
LED status indicators	Green, Solid: Output OK dc (float charging). Amber, Slow blink: Output OK dc (charging). Amber, Quick blink: Backup on dc. Red, Solid: Fault dc.
Physical	
Dimensions	406mmW x 203mmD x 406mmH (16”wide x 8” deep x 16” high).
Weight	Without batteries — 34 lbs (15.4 kg)
Mounting	Pole mount (customer supplied bracket).
Environmental	
Operating temperature	-10° to +50°C (14° to+122°F) ambient air temperature. With #BH-5 battery heater pads: -40° to +50°C (-40° to+122°F).
Agency Compliance	
cETLus and FCC	cETLus listed to: UL 60950-1, UL 1778 4th Edition and CSA C22.2: No. 107.3-05. FCC part 15, Class B.
RoHS compliant	Per EU Directive 2002/95/EC. Restrictions of hazardous substances.
NEMA	Full weather NEMA 3R outdoor steel enclosure.
Warranty	
Warranty	2 year limited warranty, parts & labor; manufacturer's battery warranty.



Outdoor-DcUPS-250-6070 at a glance

Heavy-duty outdoor on-line UPS with dc output, wide ac input voltage window, and wide temperature batteries (customer supplied)

- Wide ambient temperature range:
-10° to +50°C (14° to +122°F);
or
-40° to +50°C (-40° to +122°F)
with thermostat controlled battery heater pads
- Backup time:
1 hour @ 250 watts load
- Nominal 48 volts dc output from 95–140 vac input without going to batteries
- 48 vdc battery bus
- Weather protected NEMA-3R painted metal cabinet
- Pole mountable with customer supplied bracket



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