



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

Outdoor DcUPS models

250-7070

250 watts
input can be
115 or 230 vac
output is
48 vdc

Option A

2 hours @ 250W

Option B

4 hours @ 250W

Option C

6 hours @ 250W

Option D

8 hours @ 250W

Pole-mountable UPS with dc output and wide temperature batteries

The TSi Power Outdoor-DcUPS-250-7070 with dc output is for pole mounted dc powered applications needing backup power in extreme weather conditions. They are constructed with wide temperature batteries and are housed in a weather protected IP44 (NEMA-3R) enclosure. These offer a wide input voltage window range (88–264 vac) with heavy duty surge protection and noise filtering, and deliver a nominal 48 vdc (40 – 56 vdc) output.

Key Outdoor Dc UPS benefits

This rugged outdoor dc output UPS design is suitable for use in severe environments. When ordered with Option D — 8 hours of backup time, this unit provides support for satisfying certain regulations that may require cell sites, remote switches and digital loop carrier system remote terminals to have a minimum of 8 hours of backup time.

Outdoor UPS extreme/wide temperature batteries allow operation of the UPS system over an ambient temperature range of -10° to +55°C (-14° to +131°F); -30° to +55°C (-22° to +131°F) with Option H—optional battery heater.

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

Battery backup run-times with a 250 watts load:

- Option A — 2 hours
- Option B — 4 hours
- Option C — 6 hours
- Option D — 8 hours

For OEMs utilizing their own batteries, order just the base unit which is without batteries. Also, units are field expandable in steps of two hours up to eight hours.

How the outdoor dc UPS works

The outdoor UPS with dc output provides extended battery backup through a system which takes nominal 115 or 230 vac input (from 88–264 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), security/gate control systems, LED traffic light/roadway display systems, radio heads and repeaters.

Key outdoor UPS features

- Tall and thin pole mountable design
- Full weather outdoor protection IP44 (NEMA-3R) metal cabinet with two hinged doors
- 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



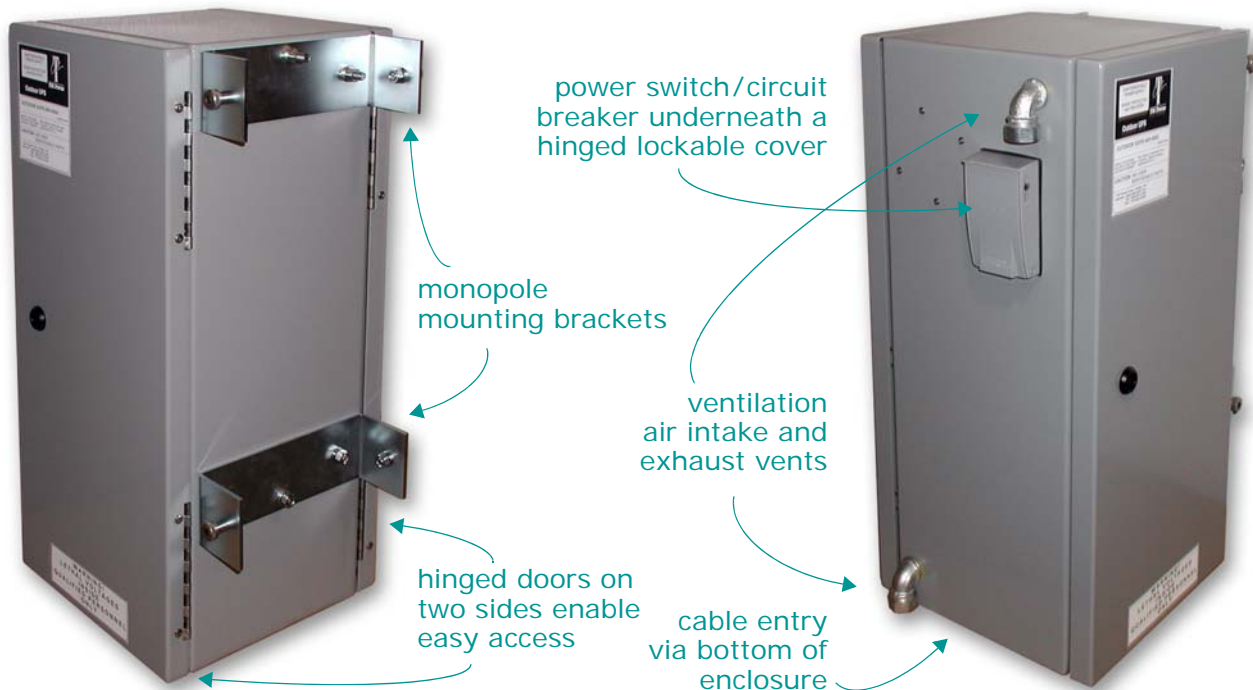
Pole mountable outdoor dc output UPS with a wide ac input voltage window and extreme/wide temperature batteries

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Specification	Outdoor-DcUPS-250-7070
Electrical	
Capacity in watts	250 watts
UPS topology	Ac to dc rectifier, battery charger and sealed gel-cell batteries
Input	
Nominal voltage	115 or 230 volts ac
Operating voltage	88–264 vac without using batteries
Input current	8 amperes maximum @ 115 vac, or 4 amperes maximum @ 230 vac
Operating frequency	50 or 60Hz (47 – 63Hz)
Surge protection	Heavy duty surge protection and filtering on ac input
Circuit breaker	Power switch/circuit breaker underneath hinged lockable cover
Output	
Nominal voltage	48 volts dc
Output current	5.5 amperes maximum @ 48vdc
Power on/off switch	On/off rocker style power switch
Transfer time to backup	Zero transfer time
Battery backup time at a 250 watts load	Option A — 2 hours Option B — 4 hours Option C — 6 hours Option D — 8 hours (for OEMs using their own batteries, order just the base unit).
Battery recharge time	Option A — 10 hours to 90% capacity after full discharge. Option B — 12 hours to 90% capacity after full discharge. Option C — 14 hours to 90% capacity after full discharge. Option D — 16 hours to 90% capacity after full discharge.
Batteries and optional battery heater	Wide temperature sealed gel-cells. Each is 31 ampere hours, 12 vdc. -20° to +60°C (-4° to +140°F); or -40° to +60°C (-40° to +140°F) with optional battery heater. (For OEMs using their own batteries, order the base unit).
Ac connections	3 position terminal block provided for 3 x 1 mm ² (18AWG), L1, L2 and Ground connections through bottom of enclosure.
Dc connections	2 position terminal block provided for dc output wires connection through bottom of the enclosure
Alarms/status signals	Indicated by relay contacts NC or NO. 1. Indicates ac okay. 2. Indicates BATT ok above 11.5V.
Physical	
Dimensions	292mm Wx660mm Hx394mm D (11.5" wide x 26" high x 15.5" deep)
Weight with	Option A — 44 kg (96 lbs) Option B — 69 kg (152 lbs) Option C — 94 kg (208 lbs) Option D — 120 kg (264 lbs) Base unit without batteries for OEMs — 18 kg (40 lbs)
Steel cabinet	Full weather IP44 (NEMA 3R) outdoor enclosure with lockable doors on left and right for ease of battery replacements or upgrades.
Mounting	Pole mountable (mounting bands not included). Back of cabinet has four (4) mounting studs. For other mounting applications, please call.
Environmental	
Operating temperature, optional battery heater	-10° to +55°C (-14° to +131°F) ambient air temperature. Option H — optional battery heater: -30° to +55°C (-22° to +131°F).
Warranty	
Warranty	2 year limited warranty, parts & labor; manufacturer's battery warranty.



Outdoor-DcUPs-250-7070 at a glance

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

- Wide ambient temperature range sealed gel-cell batteries:
-10° to +55°C (-14° to +131°F);
or
-30° to +55°C (-22° to +131°F)
with Option H — thermostat controlled battery heater
- 2 hours @ 250 watts load, with Option A
- 4 hours @ 250 watts load, with Option B
- 6 hours @ 250 watts load, with Option C
- 8 hours @ 250 watts load, with Option D
- Nominal 48 volts dc output from 88–264 vac input without going to batteries
- 24 vdc battery bus
- Weather protected IP44/NEMA-3R, painted metal cabinet with two entry doors
- Pole mountable
- Field expandable in steps of 2 to 8 hours in 2 hour increments



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