



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

Outdoor Dc UPS model

8009A

60 watts
input: 115 vac
output: 12 vdc
1.3 hrs @ 60W
2.5 hrs @ 36W
-15° to +50 °C;
-40° to +50 °C
with optional
battery heater

8009C

150 watts
input: 115 vac
output: 12 vdc
30 mins @ 150W
1.25 hrs @ 75W
-15° to +50 °C;
-40° to +50 °C
with optional
battery heater

Outdoor dc output UPS with wide temperature batteries

The TSi Power Outdoor-Dc-UPS-8009A/8009C with dc output are for dc powered applications needing backup power in extreme weather conditions. The 8009 incorporates wide temperature AGM batteries and is housed in a weather protected NEMA-3R enclosure. It provides a wide input voltage range (100–140 vac), heavy duty surge protection and noise filtering.

Key Outdoor Dc UPS benefits

This rugged outdoor dc output UPS is suitable for use in severe outdoor environments.

Outdoor Dc UPS wide temperature AGM batteries allow operation of the UPS system over an ambient temperature range of -15° to +50 °C (5° to +122°F); -40° to +50 °C (-40° to +122°F) with optional BH-5 battery heater.

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

Battery run-times for the Outdoor-Dc-UPS-8009A are approximately 1.3 hours at 60 watts load, and 2.5 hours at a 36 watts load. For the Outdoor-Dc-UPS-8009C, approximately 30 minutes at 150 watts load, and 1.25 hours with a 75 watts 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 100–140 vac), converts it to dc, charges the batteries, and delivers a nominal 12 vdc. The heavy duty surge protection and noise filtering on the ac input helps protect the unit and load from transient surges on the line.

Because the unit is already delivering dc power, upon a deep brownout or loss of power, the Outdoor UPS with dc output has a zero transfer time to the reserve power in the batteries.



Typical Dc UPS applications

This heavy duty outdoor UPS system is designed for perimeter surveillance cameras (CCTV) and industrial remote terminal units (RTUs).

Key Outdoor UPS features

- Cabinet can be pole, or wall mounted
- 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 warranty on electronics, Manufacturer's warranty on batteries



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Outdoor UPS



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

| Specification | Outdoor-Dc-UPSs-8009A | Outdoor-Dc-UPSs - 8009C |
|--|---|---|
| Electrical | | |
| Capacity in watts | 60 watts | 150 watts |
| UPS topology | Ac-dc rectifier, battery charger and sealed lead-acid batteries | |
| Input | | |
| Nominal voltage | 115 volts ac | |
| Operating voltage | 100–140 vac without using batteries | |
| Input current | 3.5 A maximum @ 115V | 6 A maximum @ 115 vac |
| Operating frequency | 60Hz (57–63Hz) | |
| Output | | |
| Nominal voltage | 12 volts dc | |
| Operating voltage | 10–14 volts dc (depending on battery charge status) | |
| Output current | 5.22 A maximum @ 12 vdc | 13.04 A maximum @ 12 vdc |
| Power efficiency | 84% (typical) | |
| Power on/off switch | On/off rocker style power switch | |
| Transfer time to backup | Zero transfer time | |
| Battery backup time | 1.3 hours @ 60 watts(5A) load, 2.5 hours @ 36 watts(2.5A) load. | 30 mins. @ 150 watts(13A) load, 1.25 hrs. @ 75 watts(6.5A) load. |
| Recharge time | 4 hours to 90% capacity after full discharge. | 5.5 hours to 90% capacity after full discharge. |
| Batteries | 11 ampere hours, 12 vdc Wide temperature sealed lead-acid battery -15° to +50°C (5° to +122°F); -40° to +50°C (-40° to +122°F) with optional BH-5 battery heater. | |
| Ac connections | 3 position terminal block provided for 3 x 18 AWG (1 mm ²), L1, L2 and Ground connections via 1/2" (12mm) diameter knockouts. | |
| Dc connections | 2 position terminal block provided for dc output wires connection via 12mm (1/2") diameter knockouts. | |
| Physical | | |
| Dimensions | 12.5" wide x 12" high x 6.47" deep (317.5mmW x 305mmH x 164.3mmD) | |
| Weights | 28 lbs (12.7 kg) | 32 lbs (14.5 kg) |
| Steel cabinet | Full weather NEMA-3R, UL50 outdoor padlockable enclosure. | |
| Mounting options | Pole mountable to monopole via optional 'H' style bracket (mounting bands not included). Wall mountable via enclosure's mounting holes. | |
| Safety | | |
| cETLus Intertek mark | cETLus Intertek listed to: (ANSI/UL 60950-1 CAN/CSA C22.2: No. 60950-1-07 Clause; ANSI/UL 1778 CAN/CSA C22.2: No. 107.3-05 Clause; ANSI/UL 50E CAN/CSA C22.2: No. 94-2-07 Clause) | |
| Environmental | | |
| Operating temperature, battery heater option | -15° to +50°C (5° to +122°F) ambient air temperature. -40° to +50°C (-40° to +122°F) with optional battery heater. | |
| Warranty | | |
| Warranty | Two year limited warranty, parts and labor. Manufacturer's battery warranty. | |

TSi's ongoing product improvement process makes specifications subject to change. Other companies product names herein are for identification purposes only, and may be trademarks of their respective companies.



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Outdoor
UPS



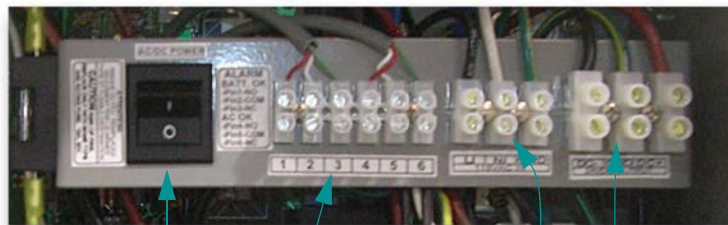
optional bandable or
boltable monopole
mounting brackets



Outdoor-UPS-8009A/8009C 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 lead-acid batteries:
-15° to +50°C (5° to +122°F); or
-40° to +50°C (-40° to +122°F)
with optional thermostat
controlled BH-5 battery heater
- **1.3 hours @ 60 watts load**, or
2.5 hours @ 36 watts load with
the Outdoor-Dc-UPS-8009A
- **30 minutes @ 150 watts load**, or
1.25 hours @ 75 watts load with
the Outdoor-Dc-UPS-8009C
- Nominal 12 volts dc
(10–14 vdc) output
from 100–140 vac input
without going to batteries
- 12 vdc battery bus
- Weather protected
NEMA-3R painted metal
cabinet
- Optional pole, wall or floor
mounting brackets available.
Must be specified/ordered at
time of purchase order.



on/off
switch

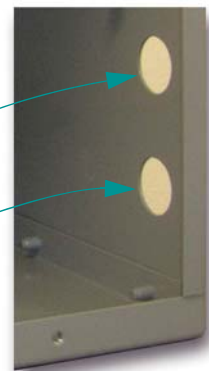
alarm
signals

terminal block
connectors

swivel out flange for attaching
a seal or padlock once lid is
closed



ac inputs / outputs are
via 12 mm (1/2")
diameter knockouts



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