

# Outdoor UPS

## UPS Model

### 8009A

60 W  
12 VDC  
5.22 A  
Backup: 69 min

### 8009B

100 W  
24 VDC  
4.26 A  
Backup: 43 min

### 8009C

150 W  
12 VDC  
13.04 A  
Backup: 24 min

### 8009D

150 W  
24 VDC  
5.22 A  
Backup: 24 min

DC Outputs

Wide Temperature Batteries

Wide AC Input Voltage Window

## Outdoor DC Output UPS

TSi Power's Outdoor-DC-UPS 8009 with DC output are for DC-powered applications needing backup power in extreme weather conditions. The Outdoor DC-UPS- 8009 incorporates wide temperature AGM batteries and is housed in a weather-protected enclosure tested to UL 50E. It provides a wide input voltage range (100–140 V), heavy duty surge protection and noise filtering.

### Typical DC UPS applications

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

### How the DC UPS works

The outdoor DC UPS provides a well-regulated DC output and uses a three-stage, temperature compensated battery charger for optimal battery life.



Front ISO view with cover removed and right side cable entry ports



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### Features and Benefits

- Cabinet can be pole, or wall mounted for increased mounting flexibility.
- The all-weather NEMA 3R design steel cabinet is UL 50E tested for durability and assures long service life.
- Conformal coating on all circuit boards protects against moisture.
- Wide temperature AGM batteries ensure optimum performance and long service life.
- Temperature-compensated three-stage charger improves reliability and performance.
- Heavy-duty surge protection and noise filtering assures quality output.
- Wide AC input voltage window lengthens battery life.
- Two-year limited warranty backs-up workmanship and product performance.

SPECIFICATION	8009A	8009B	8009C	8009D
UPS topology	AC to DC rectifier, battery charger and valve regulated AGM batteries			
<b>INPUT</b>				
Nominal voltage	120 V			
Operating voltage	100 - 140 V			
Input current	3.5 A	4.5 A	6.0 A	6.0 A
Operating frequency	57 - 63 Hz			
AC connections	Holes for 1/2" conduit connectors, Euro style wiring terminals for AWG 16			
<b>OUTPUT</b>				
Nominal voltage	12 VDC, 60 W	24 VDC, 100 W	12 VDC, 150 W	24 VDC, 150 W
Operating voltage	10 - 14 V DC	20 - 28 VDC	10 - 14 VDC	10 - 28 VDC
Output current	5.22 A	4.26 A	13.04 A	5.22 A
Efficiency: Line/Backup	84/96%	84/98%	84/95.5%	84/98%
Power on/off switch	On / off rocker style power switch			
Transfer time to backup	0 ms			
DC connections	Holes for 1/2" conduit connectors, Euro style wiring terminals for AWG 12			
<b>BATTERY</b>				
Battery Type: AGM	12 VDC 12 Ah	12 VDC 7 Ah x 2		
Recharge time to 90%	4 hrs	14 hrs	4 hrs	10 hrs
Battery backup time	69 min	43 min	24 min	24 min
<b>PHYSICAL</b>				
Dimensions	12.5" (318 mm) wide x 12" (305 mm) high x 6.5" (165 mm) deep			
Steel cabinet	All weather NEMA 3R design, UL 50E rain tested, padlockable enclosure			
Weights lbs / kg	30 / 13.6	32 / 14.5		
Mounting option	Wall or optional PM1 bracket for pole (mounting bands not included).			
<b>SAFETY</b>				
cETLus	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)			
<b>ENVIRONMENTAL</b>				
Operating temperature	-15° to +50° C (5° to +122° F) ambient air temperature. -40° to +50° C (-40° to +122° F) with BH5 optional battery heater.			
<b>WARRANTY</b>				
Warranty	Two year limited warranty on parts and labor. One year battery warranty.			

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## DC UPS system wiring diagram

