

Flexible UPS

Wide temperature battery

Flexibility of adding extra battery cabinets

Model
UPS-600
 600 VA
 400 watts
 120 volts
 8 min @ 400W
 20 min@ 200W

Basic UPS plus the Flexibility of Adding Extra Battery Cabinets

TSi Power's Flexible Series UPS is an excellent choice for those applications that require battery backup with good surge protection. And the flexibility of being able to add additional battery cabinets for extended run-time.

Typical applications

UPS-600 is the ideal UPS for computer or telecommunications equipment in environments where ac power delivery is unreliable and several hours of backup time are necessary.

Key benefits

The UPS-600 protects connected equipment from power supply failure, erroring, system lockups and re-boots. It contributes to enhanced systems operation, greater reliability, improved repeatability, and extended operating life.

Typical back-up time fully loaded is 8 minutes, but 20 minutes can be obtained when the unit is loaded to 50% of its capacity. Thus, an application requiring 300VA can be provided with 20 minutes of hold-up.

The capability of adding extra EXT-400 external battery packs also makes this a very cost-effective choice for enabling nearly unlimited battery backup times.

Custom settings: DIP switches in the rear panel allow the user to set brownout sensitivity, inverter operating frequency, or alarm mode, for complete flexibility and control of the UPS.

How the UPS-600 works

The UPS-600 continually provides power protection with a capacitive element and a fast-acting MOV (metal oxide varistor).

Upon loss of power, the audible alarm beeps as the unit transfers to the battery inverter in less than 8ms. When the battery level drops until only a few minutes of holdup time remain, the alarm will beep, and the LED will flash more rapidly, alerting of impending shutdown.

A DB-9 connector provides communications with monitoring software which can safely save open files and automatically shut down your systems.



Key features of the UPS-600

- Add-on battery cabinet flexibility
- Surge protection is included
- DB-9 female connector provides communications capability with optional monitoring and automatic shutdown software
- Customizable brownout sensitivity
- User-selectable 50 or 60Hz
- 2 year warranty on electronic parts
 1 year warranty on batteries



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UPS-600 with add-on battery cabinet flexibility



Rear view

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Specification	UPS-600
Electrical	
Capacity in VA (watts)	600 VA (400 watts)
UPS type	Single conversion standby with 4-8ms transfer time.
Input	
Nominal voltage	120 volts ac single phase
Operating voltage	95 to 135 volts ac. 47 to 63Hz, sinusoidal
Ac input cord	6 foot long ac cord with 5-15P plug
Output	
Nominal voltage	120 volts ac, single phase, sine wave during normal operation.
Nominal frequency	50/60Hz +/-3% (user-selectable)
Power efficiency	98% or higher during ac operation, 80% or higher/battery inverter oper.
Transfer time	4 to 8ms typical between ac and inverter.
Inverter output	105 to 130VAC _{RMS} , 50/60 Hz +/- 1% Pulse-width-modulated, modified square wave.
Battery backup time (for more time see below)	8 minutes @ full load (400 watts) 20 minutes @ 1/2 load (200 watts)
Recharge time	8 hours to return to 90% capacity after full discharge.
Optional # EXt-400 extra battery pack for longer backup time w/Anderson SB50 conn	A matching extra battery cabinet with separate charger, supplying an additional 45 minutes @ full load, 110 minutes @ half load. With a weight of 35 lbs (15.9kg), and same size as the UPS-600. EXt-400's battery recharge time is 12 hours to 90% capacity.
Surge protection	MOV spike/surge suppression.
Surge test conditions	ANSI/IEEE C62.41-1991 test pulse, Category A3, Ring wave, 6000V, 200A.
Indicators and alarms	LED indicators and audible signals for ac, inverter, and battery status.
Communications interface	DB-9 female connector provides communications capability with optional monitoring and automatic shutdown software.
Ac output receptacles	Two (NEMA 5-15R)
Physical	
Dimensions	125mm(5")wide x 178mm(7")high x 394mm(16")deep
Weight	9.1 kg(22 lbs)
Enclosure	Durable, all-steel chassis designed for indoor applications.
Safety	
Safety standards	Designed to meet UL and cUL 1778 standards
Safety and reliability	External fuse protects all ac circuits. Internal fuses protect all dc circuits.
Environmental	
Ambient temperature	0° to 40°C (32° to 104°F). 10 to 90% relative humidity(non-condensing).
Warranty	
Warranty	Two year limited warranty, parts and labor. One year battery warranty.

