

Models

UPs-600Lic

~ 3.2 Amps
~ 120 Volts

Power Conditioned UPS With Voltage Regulation

TSi Power's UPs-600Lic is an excellent choice for those applications that require voltage regulation and low-impedance isolation, as well as battery backup and surge protection.

Typical Applications

UPs-600Lic is the ideal UPS for mission-critical computer or telecommunications equipment in hostile environments where AC power quality is very poor, e.g. wide voltage fluctuations, surges, spikes, noise, etc causing frequent equipment malfunction and failures.

Key Benefits

The UPs-Lic 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. In addition, a reduction in sensitive equipment down time and service costs can be expected.

UPs-Lic also reduces the need for a high quality ground and a dedicated line, while eliminating interference from adjacent sources of disturbances.

The wide AC input voltage window reduces the frequency of discharges from the internal UPS batteries for many low and over-voltage conditions. Typical UPS' go to battery to cover for low or over-voltage conditions. The greater the number and duration of discharges, the shorter the battery life. This feature also makes it ideal for those that export equipment to emerging countries where battery life may be crucial.

Optional extended back-up time is available with external battery packs for nearly unlimited holdup 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.

UPS Plus Isolation Transformer Line Conditioning & Voltage Regulation

Key Features of the UPs-600Lic

- Four Stage Voltage Regulation
- Low-Impedance Isolation Transformer
- Coordinated Surge Protection Per IEC 1312
- Universal Frequency 50/60Hz
- 2 Year Warranty

How The UPs-600Lic Works

The integral isolation transformer provides complete galvanic isolation between the primary & secondary, & permits bonding its output neutral to ground, which completely eliminates all disturbances between neutral and ground, regardless of source. The series inductance of the transformer in combination

with a capacitive element and an MOV, provides superb noise filtering, as well as coordinated multi-stage surge protection in accordance with the principles of IEC-1312.



The four tap voltage regulation isolation transformer automatically regulates the power flowing to your equipment, to within 105 to 130VAC, even when the input AC voltage fluctuates between 75 to 150VAC.

Upon loss of power, the audible alarm beeps about once a second, as the battery inverter kicks in within 4ms, which means equipment will continue to operate without interruption.

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 female connector provides communications capability with monitoring software which can safely save open files and gracefully automatically shutdown your systems.

UPS-Lic

UPS with Isolation
Line Conditioning &
Voltage Regulation



Specification	UPS-600Lic
Electrical	
Capacity in VA (Watts)	600VA (400W)
UPS Type	Single conversion standby with 4ms transfer time.
Transformer Type	Four stage voltage regulating low-impedance isolation transformer. Provides isolation, neutral voltage regeneration and high noise immunity for both common mode & differential mode noise & spikes. The 4 stages provide regulated power (105~130V RMS) without using the batteries, even with AC mains input fluctuating from 75~150V RMS.
Input	
Nominal Voltage	120 Volts AC single phase.
Operating Voltage	75 ~ 150 Volts AC without discharging batteries.
Nominal Frequency	50/60Hz sinusoidal +/-5%
AC Input Cord	6' cord w/ 5-15P plug
Output	
Nominal Voltage	120 Volts AC, single phase 105~130VRMS even when input is 75~150VRMS.
Power Efficiency	90% or higher during AC operation, 80% or higher during battery inverter operation.
Transfer Time	<4 ms typical between AC and inverter.
Battery Back-Up Time (for more time see below)	8 Minutes @ full load (400Watts) 20 minutes @ 1/2 load (200Watts)
Recharge Time	Recharge time: 8 hours to return to 90% capacity after full discharge.
Optional # EXT-400 Extra Battery Pack For Longer Back-Up 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-600Lic. EXT-400's battery recharge time is 12 hours to 90% capacity.
Surge Protection	A three-stage surge protection system consisting of isolation transformer, capacitor and M.O.V. is included.
Surge Test Conditions	ANSI/IEEE C62.41-1991 test pulse.
Surge Let-Through Voltages	Single Pulse: L-N: 50V, L-G: 50V, N-G: 0.5V Ring Wave: L-N: 20V, L-G: 20V, N-G: 0.5V Combination Wave: L-N: 250V, L-G: 250V, N-G: 0.5V EMI/RFI and rate of voltage rise/fall (dV/dt of the remnant waveform is less than 100V/μS with input test waveform dV/dt of 6kV/μS.
Indicators & Alarms	LED indicators and audible signals for AC, inverter, and battery status.
Communications Interface	DB-9 female connector provides communications capability with optional monitoring or automatic shutdown software.
AC Output Receptacles	2 (NEMA 5-15R)
Physical	
Dimensions	5" (125mm)Wide x 7" (178mm) High x 16" (394mm)Deep
Weight	33 lbs. (15kg)
Safety	
Safety Standards	Designed to meet UL & cUL 1778 standards
Environmental	
Ambient Temperature	0° to +40°C, 90% Relative Humidity, non-condensing at 25°C
Warranty	
Warranty	2 Years, Parts & Labor. 1 Year Manufacturer's Warranty on Batteries.

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.

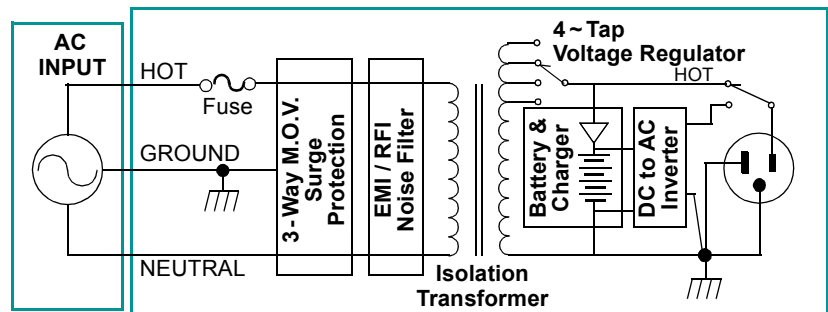


Diagram of UPS-Lic Isolation & Wide AC Input(75~150VAC)