

XUPs-Li

Sine wave

wide temperature lithium-ion batteries

voltage regulation

XUPs model**800Li**

7 amperes
800 VA
560 watts
115 volts
3 min @ 560W
7 min @ 280W

Wide temperature lithium-ion batteries UPS with voltage regulation and rack-mountable

These heavy-duty XUPs-Li Series UPS are housed in a rugged steel rack-mountable enclosure. The XUPs-Li offers line-interactive automatic voltage regulation, over/under-voltage protection, surge protection with heavy duty noise filtering, communications capability and optional extended battery backup.

Key XUPs-800Li benefits

The XUPs-Li design, with its microprocessor-controlled 20 kHz sine wave inverter, reduces the number of solid-state devices required for power conversion, thereby yielding a high level of reliability.

Built-in automatic voltage regulation enables a wide input voltage window within which the XUPs can deliver power without having to drain or exercise the batteries, thereby ensuring long battery life. A fan exhausts hot air to protect batteries and electronics.

Built-in wide temperature lithium-ion batteries provide approximately 3 minutes at a 560 watts load, and 7 minutes at a 280 watts load.

A built-in Anderson SB50 connector enables adding extra battery cabinets for longer times.

How the XUPs-Li works

The XUPs Series UPS provides automatic voltage regulation with surge protection and noise filtering, and also overvoltage protection with a threshold of 135 vac, and undervoltage protection with a threshold of 95 vac. Upon a brownout, overvoltage, or loss of power, the XUPs will transfer to battery power in less than 4 milliseconds, enabling uninterrupted operation of computer, telecom, surveillance, signaling or other electronic systems.

A comprehensive array of power, battery level, voltage level, and inverter status LED indicators is provided for visual assessment of UPS status. A DB-9 port is provided for communication using RS-232 or relay dry contact signals. The power on/off switch is recessed to prevent accidental turn on or off.



Typical XUPs-Li applications

This heavy duty UPS system is ideal for protection of computers, WiFi/GSM/CDMA/satellite base stations, wireless communications/perimeter surveillance and security/gate control systems, LED traffic light/roadway display systems and industrial remote terminal units (RTUs).

Key XUPs-800Li features

- Lithium-ion batteries for wide operating temperature (from -20 to +60°C)
- Expected 10 year battery lifetime
- Pure sine wave inverter output
- Over/under-voltage protection
- Rack or wall mountable with optional rack/wall-mount kit
- Heavy-duty surge protection and noise filtering
- Automatic voltage regulation with wide voltage input window enhances long battery life
- Comprehensive array of status bargraphs for voltage, load and battery levels
- SNMP compatible via RS-232 port with optional SNMP adapter
- Both RS-232 (via DB9) and relay contact signals are provided
- Two year limited warranty on electronics and batteries



TSi Power Corporation
1103 West Pierce Ave
Antigo, WI 54409 USA
800 874 3160 (USA only)
Phone +1 715 623 0636
Fax +1 715 623 2426
sales@tsipower.com
www.tsipower.com
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XUPs-Li



Rack-mountable heavy-duty UPS, line-interactive, wide temperature lithium-ion batteries, and automatic voltage regulation

Specification	XUPs-800Li
Electrical	
Capacity in VA (watts)	800 VA (560 watts)
UPS topology	High efficiency line-interactive with 20 kHz PWM sine wave inverter.
Input	
Operating voltage	115 volts ac (95–135 vac without using batteries)
Input current	7 amperes maximum @ 115 vac
Operating frequency	47–63Hz.
Input receptacle/plug	IEC320 input receptacle. Line cord with NEMA 5-15P plug.
Output	
Nominal voltage	115 volts ac
Voltage regulation	115 vac +/-8% upon changes in line or load.
Crest ratio	3:1
Output waveform	Pure sine wave, less than 3% THD with linear load.
Power efficiency	97%, under full load conditions.
Power on/off switch	Recessed on/off rocker style power switch.
Transfer time	<4 milliseconds
Batteries	4.3 ampere hours, 24 vdc maintenance-free lithium-ion batteries.
Battery backup time	Approx. 3 minutes at a 560 watts load, 7 minutes at a 280 watts load.
Recharge time	Two hours to 95% capacity after full discharge.
Optional extra runtime battery pack(s)	Matching extra battery pack(s) available with SB50 connector. (Please call for different external battery options).
SNMP interface for UPS monitoring and automatic shutdown configuration (optional)	Using an external SNMP adapter, the RS-232 signals (from the DB-9 female connector) from the UPS can be converted to 10M/100M fast Ethernet signals (and RJ-45 connection) for external UPS monitoring/configuration capability using Telnet, web browsers, or NMS (most such external devices support TCP/IP, UDP, SNMP, Telnet, SNTP, PPP, HTTP & SMTP protocols).
Surge protection	Ac input surge/noise filter (using inductor, capacitor and MOV).
Status indicators	5 LED load level indicator: 0 to 100% of rated load. 5 LED battery charge level indicator from 0 to 100% of rated charge. 3 LED indicators for: in boost, buck or normal mode. 3 LED indicators for: inverter on/off, battery fault and overload.
Output receptacles	Eight standard NEMA 5-15R receptacles. For others please call.
Physical	
Dimensions	406mm(16") wide x 381mm(15") deep x 89mm(3.5") high (2U high)
Weights	14kg(30 lbs)
Housing	Painted steel enclosure with rubber feet.
Rack or wall mounting kits (optional)	Front pair rack-mount kit: Center pair rack-mount kit: For a 19" rack: # MK-5019A For a 19" rack: # MK-5019F For a 23" rack: #MK-5023A For a 23" rack: #MK=5023F Wall or floor mount kit: use # MK-5000C
Safety	
Agency approvals	Designed to meet UL, cUL and IEC safety standards.
Environmental	
Operating temperature	-20° to +60°C (-4° to +140°F). 10 to 90% rel. humid. (non-condensing).
Warranty	
Warranty	Two year limited warranty on parts, electronics, batteries and labor.

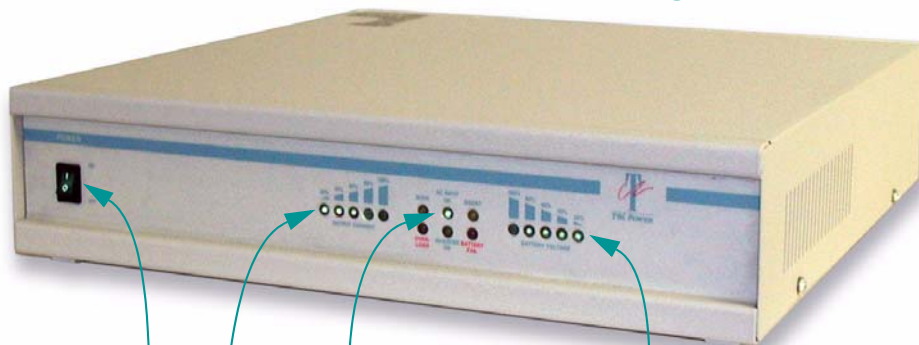


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Phone +1 715 623 0636
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XUPs-800Li Front-right view



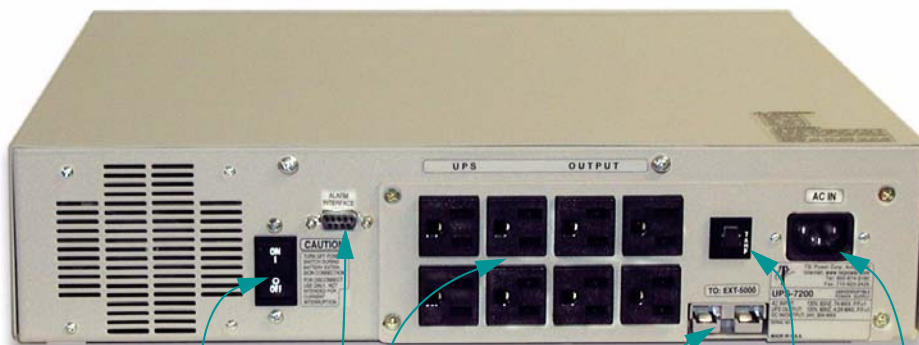
recessed
on/off switch

output current: three
of five LEDs showing
XUPs 60% loaded

- ac input on LED lit
- buck mode
- boost mode
- overload
- inverter on/off
- battery failure

battery voltage level:
four of five LEDs
showing batteries at
80% charge status

Rear view

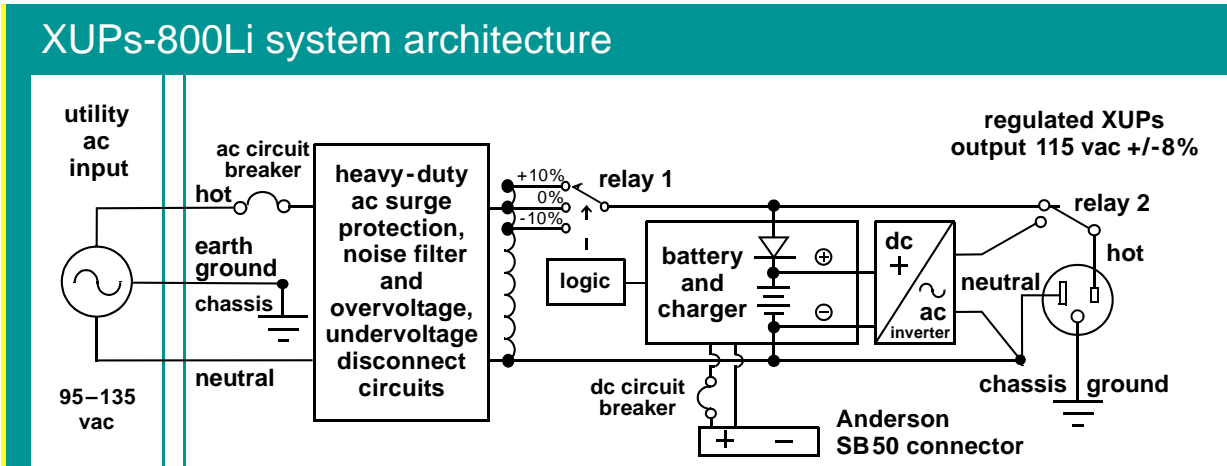


dc circuit breaker
DB-9 communication port
provides both RS-232 and
relay alarm contact signals
(or SNMP using optional
SNMP adapter)

output ac via eight
NEMA 5-15R
receptacles
dc Anderson SB-50
battery connector

input ac
circuit breaker
input ac
IEC 320 receptacle
for 6 foot cord with
NEMA 5-15P plug
(also accepts other
cord/plug sets)





XUPs-800Li at a glance

Rack/wall-mountable wide temperature lithium-ion battery based UPS with line-interactive automatic voltage regulation and wide input voltage window

- Wide operating temperature (from - 20° to + 60°C)
- 3 minutes @ 560 watts load, 7 minutes @ 280 watts load battery runtimes
- A built-in Anderson SB50 connector enables adding extra battery packs for longer times
- Less than 4ms transfer time
- Lithium-ion batteries with 2 year warranty
- Battery lifetime: 10 years at 25°C
- 115 vac +/- 8% output from 95-135 vac input without going to batteries
- 24 vdc battery bus
- Microprocessor-controlled 20 kHz PWM sine wave inverter
- Rack-mountable metal cabinet allows for rack or wall mounting using optional mounting kits
- SNMP compatible with optional SNMP adapter



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