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Model #: SU6000RT3U

SmartOnline EZ-series UPS System - High efficiency, Hot-swappable, On-line, Double-conversion UPS



Highlights

- 6000VA online 9U rack / tower UPS (3U Power Module + 3U Step-down Transformer + 3U Battery Pack)
- Zero transfer time, on-line, double-conversion and economy-mode operation supported
- Enhanced serial communications ports, SNMP/Web card slot and EPO jack
- Maintains 208/240 plus 120V output +/-2% during brownouts to 156 and overvoltages to 276V
- Fault tolerant manual and auto bypass modes
- Expandable runtime with optional external battery packs
- \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

Description

Tripp Lite EZ-series 6kVA Smart Online RM UPS - 6000VA. The SU6000RT3U on-line, double-conversion UPS protects server, networking or telecommunications equipment from blackouts, voltage fluctuations and surges in a compact tower/rackmount housing. In a rack configuration, the power module, step-down transformer, and battery pack occupy only 3 rack spaces each (9U total). Upright tower placement of entire system supported with included tower stands. Large capacity 6000VA/4200 watt power module double-conversion technology converts raw input AC to DC, then resynthesizes it back to perfect sine wave AC output within 2% of user-selectable 208V/240V and 120V AC output voltages. Frequency regulation locks output power to 50/60Hz (+/-0.2 Hz), removing harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types. Perfectly regulated, continuous sine wave output with zero transfer time offers guaranteed uptime and compatibility with all equipment types. Hardwire input and output connections support a variety of permanent or PDU style power connections. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. Battery support can be extended through the addition of external battery packs. Includes accessory slot for optional monitoring and management cards, plus DB9 contact-closure, and DB9 enhanced serial monitoring ports for unattended shutdown, remote control and monitoring of UPS system and power data.

Package Includes

- SU6000RT3UPM 3U power module
- SU6000XFMRRT3U 3U step-down isolation transformer
- 240V 3U external battery pack
- Four post compatible rack rail kit (3 sets)
- PowerAlert software, complete data cabling and user manual

Features

- Tripp Lite EZ-series SU6000RT3U 6kVA / 6,000VA / 4200 watt on-line, double-conversion UPS system in 9U total rack/tower configuration (3U UPS power module, 3U external battery pack and 3U step-down transformer)
- Included step-down transformer with manual bypass switch enables hot-swappable UPS power module replacement with no interruption in output power to connected networking equipment
- Fault-tolerant auto-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions
- Hardwire input and output connections
- Full-time active power conditioning provides clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions

and line noise

- Double-conversion operation converts raw input from AC to DC, then re-synthesizes output power back to perfect sine wave AC with enhanced protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types
- Accepts input voltages between 156 and 276, regulating output within 2% of selectable 208/240 and 120V AC output
- Standard included 3U battery pack provides 20 minutes runtime at half load (3000VA) and 8 minutes at full load (6000VA)
- Expandable runtime is supported with optional BP240V10RT3U; BP240V557C-1PH; BP240V787C-1PH; BP240V1037C-1PH; BP240V1407C-1PH external battery packs
- Highly efficient operation in optional economy mode significantly reduces BTU heat output and operating energy costs
- PowerAlert monitoring software offers detailed site power and UPS updates with support for safe auto-shutdown of connected systems as UPS batteries become depleted
- Includes Free PowerAlert monitoring software packages; PowerAlert LOCAL for desktops and small business networks, PowerAlert NSA (Network Shutdown Agent) for larger networks and PowerAlert NMS (Network Management System) for monitoring up to 250 SNMP-enabled UPS, PDU and other networking devices
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232 interfaces
- Optional SNMPWEBCARD offers communications and control via secure remote web and network interfaces
- Optional RELAYIOCARD supports six configurable hard contact closure outputs for custom event notification
- Supports Emergency Power Off (EPO) via built-in interface
- Included rail kit supports 9U 19 inch rackmount installation in 4 post racks
- Optional 2POSTRMKITHD supports installation in 2 post 19 inch racks
- Front panel LED's and LCD readout with scroll controls and supports visual monitoring of all major UPS functions and advanced UPS settings for nominal voltage selection, economy mode, and other operational parameters
- LED / LCD display panel rotates for viewing in rackmount or tower configurations
- Network-grade AC surge and noise suppression
- External battery packs are field replaceable and hot swappable

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	6000
Output kVA capacity (kVA)	6
Output Watt Capacity (watts)	4200
Output kW capacity	4.2
Output power factor	0.7
Crest Factor	3:1
Nominal Output Voltage(s) Supported	120V; 208V; 240V
Frequency compatibility	50 / 60 Hz
Frequency compatibility details	Output frequency matches input nominal on startup
Output voltage regulation (line mode)	+/- 2%
Output voltage regulation (Economy line mode)	+/- 10%
Output voltage regulation (Battery mode)	+/- 2%

Built-in UPS output receptacles	Hardwire
Output receptacle backplate options	Optional backplates SUPDM12 (for 208v nominal), SUPDM14 (for 240v nominal), SUPDM16 (for 208v nominal) add low and high voltage outlets, plus L6-30P input cord
Output circuit breaker	40A double-pole
Basic PDU options	PDU1220 (1U / 13 5-15/20R outlets); PDU1230 (1U / 2 C19, 16 C13 outlets); PDUV20 (0U / 12 5-15/20R outlets); PDU40TDUAL (0U / 40 5-15/20R outlets); PDUV30HV (0U / 6 C19, 32 C13 outlets)
Metered PDU options	PDUMH20 (1U / 13 5-15/20R outlets); PDUMH20AT (1U / 16 5-15/20R outlets)*; PDUMV20 (0U / 16 5-15/20R outlets); PDUMV40 (0U / 32 5-15/20R outlets); PDUMV30HV (0U / 6 C19, 24 C13 outlets)
Switched PDU options	PDUMH20ATNET (1U / 16 5-15/20R outlets)*; PDUMH30HVNET (2U / 16 C13 outlets); PDUMV20NET (0U / 24 5-15/20R outlets); PDUMV30HVNET (0U / 4 C19, 24 C13 outlets)
PDU recommendation notes	All noted PDU options compatible with SUPDM12 , SUPDM13 or SUPDM16 corded backplate (SUPDM12 and SUPDM13 offer additional support for L6-20P plug in PDUs)
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Sine wave
INPUT	
Rated input current (at maximum load)	30A
Nominal Input Voltage(s) Supported	208V AC; 240V AC
UPS input connection type	Hardwire
UPS input connection description	3 wire single phase input (L1, L2, G); optional, country-specific backplates SUPDM12 (for 208v nominal), SUPDM14 (for 240v nominal), SUPDM16 (for 208v nominal) add low and high voltage outlets, plus L6-30P input cord
Input circuit breaker	40A double-pole
Recommended Electrical Service	30A 208V or 240V
BATTERY	
Full load runtime (minutes)	8 min. (4200w)
Half load runtime (minutes)	20 min. (2100w)
Expandable battery runtime	Supports extended runtime with optional external battery packs
External battery pack compatibility	BP240V10RT3U ; BP240V557C-1PH ; BP240V787C-1PH ; BP240V1037C-1PH ; BP240V1407C-1PH
DC system voltage (VDC)	240
Battery recharge rate (included batteries)	Less than 6 hours from 10% to 80%
Battery replacement description	Hot-swappable, user replaceable batteries
VOLTAGE REGULATION	

Voltage regulation description	Online, double-conversion power conditioning
Overvoltage correction	2% output voltage regulation during overvoltages to 276
Undervoltage correction	2% output voltage regulation during undervoltages to 156
LEDS ALARMS & SWITCHES	
LED Indicators	6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options
Front panel LCD display	Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats (see manual)
Alarms	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
Alarm cancel operation	Alarm cancel switch
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation; 2 additional switches support set and execute scrolling LCD functions; bundled transformer includes bypass switch to enable hot-swap UPS power module replacement
SURGE / NOISE SUPPRESSION	
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
ISOLATION	
Output isolation transformer	120V output includes load isolation transformer protection
PHYSICAL	
Installation form factors supported with included accessories	4 post 19 inch rackmount (mounting rail kit included); Tower
Included mounting accessory description	3 sets of adjustable 4 post rack rails included
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITHD)
Optional mounting accessory notes	3 sets of 2POSTRMKITHD required for 2 post rackmount installation of separate power module, transformer and battery pack
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	5.2 x 17.5 x 26
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	13.3 x 44.4 x 66
Installed whole system maximum rack depth (inches)	26

Installed whole system maximum rack depth (cm)	66
Installed whole system total rack space height (rack spaces)	9U
Secondary form factor	Tower (requires 2-9U STAND)
UPS / Power Module weight (lbs)	43.8
UPS / Power Module weight (kg)	19.9
UPS dimensions details	Includes 3U power module, 3U stepdown transformer and 3U battery pack
Stepdown transformer dimensions (height x width x depth / inches)	5.2 x 17.5 x 26
Stepdown transformer dimensions (height x width x depth / cm)	13.3 x 44.4 x 66
Stepdown transformer weight (lbs)	90
Stepdown transformer weight (kg)	40.9
Included battery pack dimensions (height x width x depth / inches)	5.2 x 17.5 x 25
Included battery pack dimensions (height x width x depth / cm)	13.3 x 44.4 x 63.5
Included battery pack weight (lbs)	136.5
Included battery pack weight (kg)	62
Shipping weight (lbs)	380
Shipping weight (kg)	172.5
UPS housing material	Steel
Cooling method	Fan
ENVIRONMENTAL	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing

AC mode BTU / hr. (full load)	1412.3
AC economy mode BTU / hr. (full load)	911.5
Battery mode BTU / hr. (full load)	1586.7
AC economy mode efficiency rating (100% load)	96%
Operating Elevation (ft)	0-3000m (0 to 10,000 ft.)
Audible Noise	53dBA At Front Side 1 Meter
COMMUNICATIONS	
Communications interface	DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	RS232 and contact closure communications are located on two separate DB9 ports
PowerAlert software	Included
Communications cable	DB9 cable included
LINE / BATTERY TRANSFER	
Transfer time	No transfer time (0 ms.) in online, double-conversion mode
Low voltage transfer to battery power (setpoint)	156
High voltage transfer to battery power (setpoint)	276
SPECIAL FEATURES	
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
Economy mode operation	Optional economy mode enables high efficiency bypass operation with a maximum output voltage variation of +/-10%. Double conversion mode is automatically restored as mains voltage varies beyond +/-10% with less than 1 millisecond transfer time between modes.
High availability UPS features	Automatic inverter bypass; Manual bypass switch; Hot swappable UPS power module; Hot swappable batteries
Green & high efficiency features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Tested to CE (EU); Tested to GOST (Russia); Tested to SASO (Saudi Arabia); Tested to IRAM (Argentina); Meets FCC Part 15 Category A (EMI); ROHS (Reduction of Hazardous Substances)
WARRANTY	
Product Warranty Period (U.S., Canada & Puerto Rico)	2 years

Connected Equipment Insurance (U.S., Canada & Puerto Rico)

\$250,000 connected equipment insurance

Related Items

Optional Products

Product Type	Related Model	Description	Qty.
Shutdown Cable Kits	AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	-
SNMP Accessories	SNMPWEBCARD	For remote monitoring and control via SNMP, Web, or Telnet.	-
SNMP Accessories	ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	-
Power Cables	SU30ACORD	SU30ACORD - Optional Input Cord for UPS System	-
Backplates	SUPDM12	Corded UPS Backplate Outlet Kit - Adds AC plug-in connection and AC output receptacles to SU6000RT3U and SU6000RT3UXR UPS for use with 208V UPS output voltage configurations	-
Backplates	SUPDM13	Corded UPS Backplate Outlet Kit - Adds AC plug-in connection and AC output receptacles to SU6000RT3U and SU6000RT3UXR UPS for use with 240V UPS output voltage configurations	-
Backplates	SUPDM15	Corded UPS Backplate Outlet Kit - Adds AC plug-in connection and AC output receptacles to SU6000RT3U and SU6000RT3UXR UPS for use with 240V UPS output voltage configurations	-
Backplates	SUPDM16	Corded UPS Backplate Outlet Kit - Adds AC plug-in connection and AC output receptacles to SU6000RT3U and SU6000RT3UXR UPS for use with 208V UPS output voltage configurations	-
Surge Protectors	DNET1	Network Surge Suppressor - Essential protection for data and communication lines	-
Surge Protectors	DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	-
External Battery Packs	BP240V557C-1PH	External battery pack for use with select Tripp Lite UPS Systems	-
External Battery Packs	BP240V787C-1PH	External battery pack for use with select Tripp Lite UPS Systems	-
External Battery Packs	BP240V1037C-1PH	External battery pack for use with select Tripp Lite UPS Systems	-
External Battery Packs	BP240V1407C-1PH	External battery pack for use with select Tripp Lite UPS Systems	-
Tower Stands	2-9USTAND	Enables Tower Placement of Rackmount UPS Systems	-
Extended Warranties	WEXT3-SU6000	3-Year Extended Warranty - For SU6000 models	-
Extended Warranties	WEXT5-SU6000	5-Year Extended Warranty - For SU6000 models	-
External Battery Packs	BP240V10RT3U	External Battery Pack and Cable. 3U, Expandable, Black 3-Point Connector	-
Rackmount/Wallmount Kits	2POSTRMKITHD	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	-

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=32.

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