208/240V 6000VA 6000W On-Line UPS, Unity Power Factor with Bypass PDU, Hardwire/L6-30P Input, 3U

MODEL NUMBER: SU6KRT3UHVMB



Double-conversion UPS with detachable PDU and maintenance bypass switch provides fulltime sine wave output for advanced network applications.

Features

Protects Mission-Critical Rack-Mounted Equipment against Damage, Downtime and Data

LossTripp Lite's SmartOnline® SU6KRT3UHVMB Unity Power Factor UPS system with Maintenance Bypass Switch and Detachable Bypass PDU protects connected equipment against damage, downtime and data loss due to power outages, voltage fluctuations and transient surges. Unity Power Factor design enables full 6000VA / 6000W output capacity when used with hardwire 208/240V input power (output derates to 5600W-240V/4800W-208V with included L6-30P cord option). In double-conversion mode, this UPS system maintains perfect output by continuously converting AC input to DC, then reconverting UPS output to fully regulated sine wave AC with ±1% voltage regulation and zero transfer time between online and battery modes. Featuring true on-line, double-conversion operation, Tripp Lite's SU6KRT3UHVMB provides the highest level of UPS power protection for critical server, network and telecom equipment.

High Availability Configuration Offers Reliable, Expandable Battery BackupIncluded Maintenance Bypass Switch is mounted on a detachable Bypass PDU that securely mounts to the rear-rails of a 4 post rack enclosure and remains safely in-place powering your equipment during UPS maintenance. The UPS connects to the Bypass PDU using a sophisticated blind-mate connector set with self-aligning guide-pins to ensure safe and reliable whole-UPS replacement with zero downtime for connected equipment. UPS battery backup keeps connected equipment operational through short power failures, and provides time to save data and perform an orderly system shutdown in case of a prolonged blackout. The internal battery set provides 8.5 minutes of support at half load and 3 minutes at full load. During normal operation, incoming utility power keeps the battery fully charged so backup power will be available when needed. Advanced temperature-controlled battery charge management system provides efficient recharge and enhanced battery lifespan. For mission-critical applications demanding continuous uptime, the 6kVA UPS can provide expandable runtime with optional BP192V12RT3US external battery pack (sold separately). Battery-independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries.

Economy Mode Helps the Environment and Your Cash FlowOperates with >98% full-load efficiency in optional economy mode significantly reducing BTU heat output and operating energy costs.

Intuitive Front-Panel Interface offers Convenient MonitoringFront-panel LEDs indicate line power, AC output, On-battery mode, and Fault conditions. The LCD readout with scroll controls supports visual

Highlights

- Unity (1.0) power factor equalizes VA and wattage to safely support more equipment
- Zero transfer time between online and battery modes for uninterrupted operation
- Detachable PDU with maintenance bypass switch allows convenient hot-swapping
- Pre-installed WEBCARDLXMINI network interface supports Auto Probe feature
- ENERGY STAR-certified to save electricity, lower costs and protect the environment

Applications

- Delivering perfectly regulated sine wave output to missioncritical equipment
- Protecting connected components from dangerous surges, spikes and line noise
- Keeping equipment operational through short power failures
- Allowing time to save data and safely shut down components in case of a prolonged blackout

Package Includes

- On-line double-conversion UPS
- Pre-installed WEBCARDLXMINI network management card
- Detachable bypass PDU
- (2) Hardwire strain reliefs
- USB cable
- RS-232 cable
- NEMA L6-30P power cable
- Rack-mounting hardware
- Owner's manual

monitoring of a variety of control options to support advanced UPS settings and configurations. The panel rotates for comfortable viewing in rack-mount or tower configuration.

Pre-installed WEBCARDLXMINI Network Interface Offers 24/7 AccessPre-installed Java-free HTML5based WEBCARDLXMINI interface enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network. Automated alerts help prevent accidental overloads, power loss and downtime. Advanced Communications Ports USB and DB9 ports with included cabling enable data-saving unattended shutdown of connected systems when used with Tripp Lite's free downloadable PowerAlert® software. Capabilities include detailed monitoring of load levels, self-test data and utility power conditions. DB9 ports also support basic contact-closure monitoring to report On-battery and Low-battery status for legacy systems.

Versatile Installation OptionsHardware is included for mounting the complete 6kVA UPS system with internal batteries in 3U of space in an EIA-standard 19-inch 4-post rack. Use the optional 2POSTRMKITHD for 2-post rack mounting or the optional 2-9USTAND for mounting in an upright tower position.

2-Year Warranty, \$250K Ultimate Lifetime Insurance and Environmentally Responsible DesignThe SU6KRT3UHVMB comes with a 2-year warranty and \$250,000 of Ultimate Lifetime Insurance for any connected components damaged by a power surge (U.S., Canada and Puerto Rico only). It's manufactured in compliance with strict RoHS specifications, reflecting Tripp Lite's commitment to environmental responsibility.

Specifications

OVERVIEW	
UPC Code	037332241542
UPS Type	On-Line
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	Hardwire AC input: 32A (200V), 30.7A (208V), 26.6A (240V) maximum; With included NEMA L6-30P input: 24A (200/208/240V) maximum; Max inrush current: 100A
Nominal Input Voltage(s) Supported	200V AC; 208V AC; 240V AC
Nominal Input Voltage Description	208V factory default
UPS Input Connection Type	Hardwire; L6-30P
UPS Input Connection Description	Hardwire input supports 3 wire L1, L2/N, PE(GND) input configurations; Includes optional L6-30P input cable
Input Frequency	50 / 60 Hz
Input Cord Length (ft.)	10
Input Cord Length (m)	3.05
Power Factor (Input)	0.98 minimum (full load, nominal input voltage)
THDi	<8% full load; <10% half load
OUTPUT	
Output Capacity (VA)	6000

Output Capacity (kVA)	6
Output Capacity (Watts)	6000
Output Capacity (kW)	6
Output Capacity Details	Supports 6000VA / 6000W with hardwire AC input; Maximum output capacity de-rates to 5600W (240V) / 4800W (208V) / 4600W (200V) when used with included L6-30P AC input cord; Inverter supports up to 104% load continuously, Up to 125% / 150% for 1.0 / 0.5 min. before bypass transfer (when available) or shutdown; Loads greater than 150% trigger immediate shutdown; AC TRANSIENT RESPONSE: ±1.5% RMS of initial value (between 10% & 90% load step)
Power Factor	1.0
Crest Factor	3:1 maximum
Nominal Voltage Details	Nominal output voltage selection is available via front panel LCD interface; 200/208/240V recommended
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	MAX-QUALITY/MAX-EFFICIENCY/AUTO-ADAPTIVE MODES: Output frequency matches input nominal on startup and tracks input frequency up to ±3Hz of nominal; When input frequency is greater than ±3Hz of nominal, output frequency is inverter regulated to ±0.5Hz of nominal; BATTERY MODE: Output frequency is inverter regulated to ±0.5Hz of the configured nominal output frequency; FREQUENCY CONVERSION MODE: Output is inverter regulated to the selected 50/60Hz output setting with ±0.5Hz regulation (de-rates to 70% capacity, bypass not available); FREQUENCY REGULATION MODE: Enables frequency correction to ±0.5Hz of the frequency sensed by the UPS on startup (no de-rating, bypass is available when input frequency is within ±0.5Hz of output)
Load Management Receptacles	Three built-in switchable output load banks; BANK 1 (Set of 2 L6-30R outlets); BANK 2 (Set of 2 L6-20R outlets); BANK 3 (Set of 2 L6-20R outlets)
Output Circuit Breakers	30A double-pole breaker protects 2 L6-30R outlets; Set of two 20A double-pole breakers protects 2 L6-20R outlets each
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	200V; 208V; 220V; 230V; 240V
Output Receptacles	Hardwire; (4) L6-20R; (2) L6-30R
Output Voltage Regulation	\pm 1% Inverter output; \pm 10% Economy mode; \pm 15% Bypass mode (configurable from \pm 5% to \pm 20%); Output voltage THD <2% (full load) / <3% (half load)
Individually Controllable Load Banks	Yes
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	3 min. (6000W)
Runtime Half Load (min.)	8.5 min. (3000W)
Expandable Runtime	Yes
Expandable Runtime Description	Up to 4 external battery packs with sensor cabling are automatically sensed and configured for advanced temperature controlled charging and accurate runtime reporting; Configurations using 5-10 external battery packs are supported, but may require the use of Tripp Lite's EXTERNAL BATTERY CONFIGURATION software for for full integration
External Battery Pack Compatibility	<a class="productLink" href="//tripplite.eaton.com/External-Battery-Pack-192V-3U-Rack-
Tower~BP192V12RT3US">BP192V12RT3US
DC System Voltage (VDC)	192

Battery Recharge Rate (Included Batteries)	3 hours from 10% to 90% (typical, internal batteries with full load discharge); Charge settings: 1.5A (internal batteries) / 2A (with external battery packs) configures automatically; Supports temperature compensated battery charging
Battery Access	Front panel battery access door
Internal UPS Replacement Battery Cartridge	<a class="productLink" href="//tripplite.eaton.com/UPS-Replacement-192VDC-Battery-Cartridge-3U~RBC58-
3US">RBC58-3US (qty 1)
Battery Replacement Description	Hot-swappable, user replaceable internal batteries and external battery packs
VOLTAGE REGULATION	
Voltage Regulation Description	±1% Inverter output regulation; ±10% in optional Eco mode
Overvoltage Correction	Corrects overvoltages as high as 275V
Undervoltage Correction	Corrects undervoltages as low as 156V (100% load) / 100V (50% load); derates linearly
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LCD Display	Selectable LCD display with Escape, Page Up, Page Down, Enter and Power buttons enable UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats (see manual)
Switches	Includes main power off/on switch, plus Up, Down, Enter and Esc switches to set and execute LCD functions.
Alarm Cancel Operation	Alarm cancel switch
Audible Alarm	Unique audible alarms for all major UPS, environmental and power conditions (see manual)

Audible Alarm	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
LED Indicators	4 front-panel LEDs indicate AC input, AC output, Battery mode and Fault conditions

SURGE / NOISE SUPPRESSION

UPS AC Suppression Joule Rating	1680
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes

PHYSICAL

Primary Form Factor	Rackmount
Rack Height	3U
Cooling Method	Load and thermal controlled cooling fans; Field-replaceable (92mm x 38mm, ball-bearing, 115 CFM)
Included Mounting Accessory Description	Includes 4 post rackmount installation accessories; Included mounting brackets support front-to-rear rail distances of 520 to 914.4mm (20.5 to 36 in.); Enclosures require a minimum depth of 965mm (38 in.) from the front rails to the closed rear door
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount (<a class="productLink" href="//tripplite.eaton.com/2-Post-Rack-Mount-Installation-Kit-3U-
Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2POSTRMKITHD); Tower (<a class="productLink" href="//tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-
Systems~2-9USTAND">2-9USTAND)
Minimum Required Rack Depth (cm)	99.06
Minimum Required Rack Depth (inches)	39

Primary UPS With (mm) 445 Shipping Dimensions (md / in) 28.00 x 23.75 x 34.75 Shipping Weight (kg) 86.18 Bypass PDU Dimensions (md / in) 5.13 x 10.6 x 10 Unit Dimension Details Minimum required rack depth assumes 127mm / 5 in, additional depth for AC input/output cabling: See submittal UPS Power Module Dimensions Sheet metail UPS Power Module Dimensions UPS Power Module Dimensions 5.14 x 17.5 x 35.5 UPS Power Module Dimensions UPS Power Module Weight (kg) 56.79 125.2 ENVIRONMENTAL Ever Module Weight (kg) 13.00 Storage Temperature Range 52 to 104°F (0° to 40°C) Storage Temperature Range Storage Temperature Range 52 to 104°F (0° to 40°C) Storage Temperature Range Storage Temperature Range 52 to 104°F (0° to 40°C) Storage Temperature Range 54 to 122°F (-15' to 50°C) Relative Hundidy 5 to 93%, com-condensing 300 300 300 AC Mode Efficiency Rating 38%, 38%, 38%, 38%, 38%, 38%, 38%, 38%, 38%, 38%, 38%, 38%, 38%,	Primary UPS Depth (mm)	902
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Shipping Weight (kg) 86.18 Bypass PDU Dimensions (hwd / cm) 13.03 x 29.46 x 25.4 Bypass PDU Dimensions (hwd / cm) 5.13 x 11.6 x 10 Unit Dimension Status Minimum required rack depth assumes 127m / 5 in. additional depth for AC input/output cabling: See submittal drawing for additional dimension detail UPS Housing Material Sheet metal UPS Power Module Weight (kg) 56.79 UPS Power Module Weight (kg) 56.79 UPS Power Module Weight (kg) 125.2 ENVIRONMENTAL Statist 7.5 x 36.5 Operating Temperature Range 32* to 104*F (0* to 40*C) Storage Temperature Range 5* to 122*F (-15* to 50*C) Relative Humidify 5 to 59%, non-condensing AC Mode Efficiency Rating (100%) -94% Coronty Mode Efficiency Rating (100%) -94% Coronty Mode Efficiency Rating (100%) -94% Coronty Mode Efficiency Rating (100%) -98% C	Primary UPS Width (mm)	445
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systems-WEBCARDLXMINI">WEBCARDLXMINI Network Monitoring Port Description Includes Pre-installed WEBCARDLXMINI network management card; DB9 port supports RS-232 and Contact- closure signaling PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Yes Network Management Card Description Network management card included Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	Relative Humidity	5 to 95%, non-condensing
Load)S94 70AC Economy Mode Efficiency Rating (100% Load)>98%Operating Elevation (ft.)Up to 6562 ft.Audible Noise67.1 dB (full load) / 53dB (no load) front side 1mOperating Elevation (m)Up to 2000mCOMMUNICATIONSNetwork Management CardsNetwork Monitoring Port DescriptionIncludes Pre-installed WEBCARDLXMINI network management card; DB9 port supports RS-232 and Contact- closure signalingPowerAlert SoftwareFor local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alertVestwork Management CardUSB, DB9 serial and EPO cables includedVestwork Management CardNetwork management card includedCommunications LableUSB, DB9 serial and EPO cables includedVestwork Management CardNetwork management card includedCommunications InterfaceContact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	AC Mode BTU / Hr. (Full Load)	1300
(100% Load) 250.% Operating Elevation (ft.) Up to 6562 ft. Audible Noise 67.1dB (full load) / 53dB (no load) front side 1m Operating Elevation (m) Up to 2000m COMMUNICATIONS Network Management Cards WEBCARDLXMINI Network Monitoring Port Description Includes Pre-installed WEBCARDLXMINI PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Yes Network Management Card Network management card included Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;		>94%
Audible Noise 67.1dB (full load) / 53dB (no load) front side 1m Operating Elevation (m) Up to 2000m COMMUNICATIONS Network Management Cards : WEBCARDLXMINI Network Monitoring Port Description Includes Pre-installed WEBCARDLXMINI network management card; DB9 port supports RS-232 and Contact-closure signaling PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Yes Network Management Card Network management card included Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	Operating Elevation (ft.)	Up to 6562 ft.
COMMUNICATIONS Network Management Cards WEBCARDLXMINI Network Monitoring Port Description Includes Pre-installed WEBCARDLXMINI etwork management card; DB9 port supports RS-232 and Contact-closure signaling PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Yes Network Management Card Network management card included Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	Audible Noise	67.1dB (full load) / 53dB (no load) front side 1m
Network Management Cards WEBCARDLXMINI Network Monitoring Port Description Includes Pre-installed WEBCARDLXMINI network management card; DB9 port supports RS-232 and Contact-closure signaling PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Yes Network Management Card Network management card included Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	Operating Elevation (m)	Up to 2000m
systems~WEBCARDLXMINI">WEBCARDLXMININetwork Monitoring Port DescriptionIncludes Pre-installed WEBCARDLXMINI network management card; DB9 port supports RS-232 and Contact- closure signalingPowerAlert SoftwareFor local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alertCommunications CableUSB, DB9 serial and EPO cables includedWatchDog CompatibilityYesNetwork Management Card DescriptionNetwork management card includedCommunications InterfaceContact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	COMMUNICATIONS	
Closure signaling PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Yes Network Management Card Description Network management card included Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	Network Management Cards	<a class="productLink" href="//tripplite.eaton.com/network-interface-card-for-select-tripp-lite-ups-
systems~WEBCARDLXMINI">WEBCARDLXMINI
https://tripplite.eaton.com/products/power-alert Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Yes Network Management Card Description Network management card included Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	Network Monitoring Port Description	
WatchDog Compatibility Yes Network Management Card Network management card included Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	PowerAlert Software	
Network Management Card Description Network management card included Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	Communications Cable	USB, DB9 serial and EPO cables included
Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface;	WatchDog Compatibility	Yes
Communications Interface Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled)	Network Management Card Description	Network management card included
	Communications Interface	Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled)



LINE / BATTERY TRANSFER	
Transfer Time	Online to Battery mode: 0 ms. (Zero transfer time)
Transfer Time (Economy Mode)	Online to Eco mode: 2 milliseconds / Eco to Battery mode: 8 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	156V (full load) / 100V (50% load or less, derates linearly)
High Voltage Transfer to Battery Power (Setpoint)	275V
FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring and Reboot (requires WEBCARDLXMINI); Automatic inverter bypass; Hot swappable UPS power module; Hot swappable batteries; Manual bypass switch; On-Line/Double-Conversion; Surge/noise protection; Zero transfer time
Green Energy-Saving Features	High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation; Support for daily startup and shutoff
STANDARDS & COMPLIANCE	
Product Certifications	RETIE (Colombia); CSA (Canada); NOM (Mexico); UL 1778
Product Compliance	RoHS; ENERGY STAR Qualified; FCC Part 15 Class A (USA); UKCA; Trade Agreements Act (TAA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance



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