

Tripp Lite 1111 W. 35th Street Chicago, IL 60609 USA Telephone: 773.869.1234 www.tripplite.com

SmartOnline 208/240V 16kVA 14.4kW Double-Conversion UPS, N+1, 12U, Network Card Options, USB, DB9, Bypass, L6-30R, C19

MODEL NUMBER: SU16KRT









Description

Tripp Lite SU16KRT 16,000VA / 16kVA / 14,400 watt online, double-conversion UPS system offers complete power protection for critical server, network and telecommunications equipment in a 12U rack/tower configuration. This system delivers complete N+1 redundancy when used at loads up to 8kVA, and non-redundant operation at loads between 8 and 16kVA. Fault-tolerant auto-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions. Included parallel PDU with manual bypass switching enables hot-swappable replacement of all major UPS system components in both N+1 and combined operating modes. Enhanced availability, fault tolerance and simple hot-swap replacement options make this UPS ideal for advanced networking applications in data centers, computer rooms, network closets and rugged industrial locations.

Features

- Tripp Lite SU16KRT 16kVA, 16,000VA / 14,400 watt on-line, double-conversion UPS system in 12U total rack/tower configuration
- Unique configuration offers 16kVA non-redundant operation and automatic N+1 redundancy at load levels of 8kVA and under
- Included Parallel PDU with manual bypass switch enables hot-swap replacement of power modules at any supported load level
- Hardwire input; 2 L6-30R and 8 C19 outlets
- Maintains full-time sine wave output within 2% of selectable 200/208/220/230/240V nominal
- Supports 50/60Hz operation for worldwide frequency compatibility
- Expandable runtime with optional external battery packs
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX,

Highlights

- 16kVA / 16,000VA / 14,400W
 on-line double-conversion UPS;
 0.9 power factor
- 200/208/220/230/240V 50/60Hz output
- Hot-swap power and battery modules, N+1 fault tolerance at loads up to 8kVA
- USB, RS232 & EPO ports; slot for network management card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs
- Hardwire input (3 wire); L6-30R
 & C19 outlets

Package Includes

- Two SU8000RT3UPM UPS
 power modules
- Two BP240V10RT3U battery packs
- SUPDMB20K parallel PDU with Bypass switch
- 4 post rackmount installation rails
- USB, DB9 & EPO cables



SNMPWEBCARD, MODBUSCARD and RELAYIOCARD (NOTE: Applications utilizing any supported network management card option, require the installation of two of the same model network card – install one card per included UPS power module)

- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Battery independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries
- Intelligent battery management system with temperature-compensated charging extends battery life
- HID-compliant USB interface
- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from <u>www.tripplite.com/poweralert</u>
- Optional 2POSTRMKITHD supports installation in 2 post 19 inch racks (4 required)
- Optional 2-9USTAND supports upright tower placement (2 required)
- Supports Emergency Power Off (EPO) via built-in interface
- Front panel LEDs and LCD readout with scroll controls
- LED / LCD display panel rotates for viewing in rackmount or tower configurations
- External battery packs are field replaceable and hot swappable
- Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating)

Specifications

OVERVIEW	
UPC Code	037332158222
UPS Type	On-Line
OUTPUT	
Output Volt Amp Capacity (VA)	16000
Output kVA Capacity (kVA)	16
Output Watt Capacity (Watts)	14400
Output kW Capacity (kW)	14.4
Power Factor	0.9
Crest Factor	3:1
Nominal Voltage Details	Voltage selection via front panel LCD interface
Frequency Compatibility	50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion
Frequency Compatibility Details	Output frequency matches input nominal on startup; Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating)
Output Voltage Regulation (Line Mode)	+/- 2%



Output Voltage Regulation (Battery Mode)	+/- 2%
Output Circuit Breakers	Two built-in 30A breakers protect one L6-30R outlet each; Eight built-in 20A breakers protect one C19 outlet each
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Output Capacity Details	Supports up to 105% load continuously in double conversion mode, 106 to 125% for 1 minute, 126% to 150% for 30 seconds; Loads over 150% trigger immediate bypass mode operation to support loads directly from mains power; Double conversion mode is automatically restored as load levels are reduced to 95% or less
Nominal Output Voltage(s) Supported	200V; 208V; 240V
Output Receptacles	(2) L6-30R; (8) C19
Individually Controllable Load Banks	No
INPUT	
Rated input current (Maximum Load)	92A (200V), 88.4A (208V), 76.6A (240V)
Nominal Input Voltage(s) Supported	200V AC; 208V AC; 240V AC
UPS Input Connection Type	Hardwire
UPS Input Connection Description	3 wire single phase input (L1, L2, G)
Recommended Electrical Service	100A @ 200V, 208V, or 240V (L1, L2, G)
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	5.5 minutes (14,400 watts)
Half Load Runtime (min.)	13.5 minutes (7200 watts)
Expandable Battery Runtime	Runtime is expandable with external battery packs
External Battery Pack Compatibility	BP240V10RT3U; BP240V557C-1PH; BP240V787C-1PH; BP240V1037C-1PH; <a <br="" class="productLink">href="//tldcstaging.tripplite.com/External-240V-Tower-Battery-Pack-for-Select-Tripp-Lite-UPS-Systems- BP240V1407C-1PH~BP240V1407C-1PH">BP240V1407C-1PH; BP240V1037C-1PH;
Expandable Runtime Description	For best results, add external batteries in multiples of two so that both included 8kVA power modules have an equal number and type of connected battery packs
DC System Voltage (VDC)	240
Battery Recharge Rate (Included Batteries)	Less than 6 hours from 10% to 90% (typical, full load discharge)
Battery Replacement Description	Hot-swappable, user replaceable external battery packs
Expandable Runtime	Yes
VOLTAGE REGULATION	
Voltage Regulation Description	2% output voltage regulation in standard online, double-conversion mode
Overvoltage Correction	Corrects overvoltages up to 300V
Undervoltage Correction	Corrects undervoltages as low as 100V



USER INTERFACE, ALERTS & CONTROLS		
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; LCD Display supports ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH and PORTUGUESE (see manual)	
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 PDU includes bypass switch to enable hot-swap UPS power module replacement	
Alarm Cancel Operation	Alarm cancel switch	
Audible Alarm	Unique audible alarms for all major UPS, environmental and power conditions (see manual)	
LED Indicators	6 LEDs indicate line power, online mode, bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options	
SURGE / NOISE SUPPRESSION		
UPS AC Suppression Joule Rating	2565	
UPS AC Suppression Response Time	Instantaneous	
EMI / RFI AC Noise Suppression	Yes	
PHYSICAL		
Cooling Method	Fans	
Included Battery Pack Dimensions (hwd / in.)	5.25 x 17.5 x 25	
Included Battery Pack Weight (kg)	71.99	
Included Battery Pack Weight (lbs.)	158.7	
Included Mounting Accessory Description	4 sets of adjustable 4 post rack rails included (one for each included 3U module)	
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount	
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND)	
Maximum Device Depth (cm)	82.55	
Maximum Device Depth (in.)	32.5	
Maximum Device Depth (mm)	826	
Minimum Required Rack Depth (cm)	95.25	
Minimum Required Rack Depth (inches)	37.5	
Optional Mounting Accessory Notes	Qty 4 <a class="productLink" href="//tldcstaging.tripplite.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-
UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2POSTRMKITHD required; Qty 2 <a class="productLink" href="//tldcstaging.tripplite.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-
Systems~2-9USTAND">2-9USTAND required	
Primary Form Factor	Rackmount	
Primary UPS Depth (mm)	656	
Primary UPS Height (mm)	131	



Rack Height 12U Shipping Dimensions (twd / cm) 91.44 x 102.24 x 129.54 Shipping Dimensions (twd / cn) 36.00 x 40.25 x 51.00 Shipping Weight (tg) 272.81 Shipping Weight (tg) 01.00 UPS Dimensions Details Includes 2 SUB000RT3UPM UPS/Power modules of DVPS/Power module and Included battery packs and SUPDME20K parallel bypass PDU : Listed weights and dimensions for UPS Prover module and Included battery pack sach refer to a single installed UPS Dimensions Details Includes 2 SUB000RT3UPM UPS/Power modules of DVPS Prover module and Included battery pack sach refer to a single installed UPS Power Module Dimensions 13.06 x 44.45 x 65.58 UPS Power Module Dimensions 5.14 x 17.5 x 25.82 UPS Power Module Weight (tg) 19.50 UPS Power Module Weight (tg) 19.50 UPS Power Module Weight (tg) 19.50 UPS Power Module Weight (tg) 43 ENVIRONMENTAL 516 + 122 degrees Fahrenheit / 0 to +40 degrees Celsius Storage Temporature Range +52 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius Relative Humidity 0 to 95%, non-condensing AC Mode BTU / Hr. (Full Load) 564 Battery Mode BTU / Hr. (Full Load) 640 Ac Mode BTU / Hr. (Full Load) 644 Operating Elevation (th) 0-3000m (0 to 10,000 ft.) Contmunications Interface		
Shipping Dimensions (hwd / cm) 91.44 x 102.24 x 120.54 Shipping Dimensions (hwd / in) 36.00 x 40.25 x 51.00 Shipping Weight (kg) 272.61 Shipping Weight (lbs.) 601.00 UPS Dimensions Details Includes 2 8U8000FT3UPM UPS/Power modules 2 8P240/H0RT3U Bathory packs and 6UPDME20K parallel bypass PDU. Used veights and dimensions for UPS/Power module and included bathory pack and hole to a single unit, WAXIMUM DEVICE DEPTH specification refers to the whole UPS installed depth with parallel bypass PDU installed UPS Housing Material Steel UPS Power Module Dimensions 5.14 x 17.5 x 25.82 UPS Power Module Dimensions 5.14 x 17.5 x 25.82 UPS Power Module Dimensions 5.14 x 17.5 x 25.82 UPS Power Module Weight (kg) 19.50 Qearating Temperature Range +32 to +102 degrees Fahrenheit / 10 to +40 degrees Celsius Relative Humidity 0 to 95%, non-condensing AC Mode BTU / Hr	Primary UPS Width (mm)	445
Shipping Dimensions (wd / in.) 36.00 x 40.25 x 51.00 Shipping Weight (kg) 272.61 Shipping Weight (kg) 601.00 UPS Dimensions Details Includes 2 SU9000RT3UPM UPS/Power modules, 2 BP240V10RT3U Battery packs and SUPDMB20k parallel bypass PDU. Listed weights and dimensions for UPS/Power module and Included Dataty pack each refer to a single installed UPS Housing Material Steel UPS Power Module Dimensions 13.06 x 44.45 x 65.58 UPS Power Module Dimensions 5.14 x 17.5 x 25.82 UPS Power Module Weight (kg) 19.50 UPS Power Module Weight (kg) 43 Environmental Steel Correnting Temperature Range +32 to +104 degrees Fahrenhet / 0 to +40 degrees Celsius Storage Temperature Range +32 to +102 degrees Fahrenhet / -15 to +50 degrees Celsius Correnting Elevation (ht) 0-10 09.5%, non-condensing AC Mode BTU / Hr. (Full Load) 4864 AC Mode BTU / Hr. (Ful	Rack Height	12U
Shipping Weight (kg) 272.61 Shipping Weight (kb.) 601.00 UPS Dimensions Details https://www.mpublics.2.BP240V10RT3U_Battery packs and SUPDME20K parallel bypass PDU_Listed weights and dimensions PUPS/Power modules.2.BP240V10RT3U_Battery pack each refer to a single unit. MAXIMUM DEVICE DEPTH specification refers to the whole UPS installed depth with parallel bypass PDU installed UPS Housing Material Steel UPS Power Module Dimensions 13.06 x 44.45 x 65.58 UPS Power Module Dimensions 5.14 x 17.5 x 25.82 UPS Power Module Weight (kg) 19.50 UPS Power Module Weight (kg) 19.50 UPS Power Module Weight (kg) 43 ENVIRONMENTAL Operating Temperature Range 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 AC Mode BTU / Hr. (Full Load) 5464 Battery Mode BTU / Hr. (Full Load) 6464 AC Mode Efficiency Raing (100% 0% Operating Temperature Range 480 dat (100.000 ft.) Audible Noise 60 dBA at front side 1 meter Operating Elevation (ft.) 0-30000 m Communicatio	Shipping Dimensions (hwd / cm)	91.44 x 102.24 x 129.54
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UPS Power Module Weight (lbs.) 43 ENVIRONMENTAL	UPS Power Module Dimensions (hwd, in.)	5.14 x 17.5 x 25.82
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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) 5464 Battery Mode BTU / Hr. (Full Load) 4864 AC Mode Efficiency Rating (100%) 90% Operating Elevation (ft.) 0-3000m (0 to 10,000 ft.) Audible Noise 60 dBA at front side 1 meter Operating Elevation (m) 0-3000 m COMMUNICATIONS USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Network Management Cards SNMPWEBCARD; TLNETCARD: WEBCARDLX; MODBUSCARD-& absp::a class="productLink" href="//tldcstaging.tripplite.com/Programmable-Relay-I-0-Card-RELAYIOCARD-//a>&absp Network Monitoring Port Description Applications utilizing any supported network management card option, require the installation of two of the same model network card – pristal one card per included UPS power module; RELAYIOMINI installation requires removal or panel containing USB ports on cach included UPS power module; RELAYIOMINI installation requires removal or panel containing USB ports on cach included UPS power module; RELAYIOMINI installation requires removal or panel containing USB ports on cach included UPS power module; RELAYIOMINI installation requires removal or panel containing USB ports on cach included UPS power module; RELAYIOMINI installation requires re	UPS Power Module Weight (lbs.)	43
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Load) 90% Operating Elevation (ft.) 0-3000m (0 to 10,000 ft.) Audible Noise 60 dBA at front side 1 meter Operating Elevation (m) 0-3000 m COMMUNICATIONS Communications Interface USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Network Management Cards SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; RELAYIOCARD Network Monitoring Port Description Applications utilizing any supported network management card option, require the installation requires removal of panel containing USB ports on each included UPS power module; RELAYIOMINI installation requires removal of panel containing USB ports on each included UPS power module PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included	Battery Mode BTU / Hr. (Full Load)	4864
Audible Noise 60 dBA at front side 1 meter Operating Elevation (m) 0-3000 m COMMUNICATIONS Communications Interface USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Network Management Cards SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; RELAYIOCARD Network Monitoring Port Description Applications utilizing any supported network management card option, require the installation of two of the same model network card – install one card per included UPS power module; RELAYIOMINI installation requires removal of panel containing USB ports on each included UPS power module PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included	AC Mode Efficiency Rating (100% Load)	90%
Operating Elevation (m) 0-3000 m COMMUNICATIONS Communications Interface USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Network Management Cards SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; RELAYIOCARD Network Monitoring Port Description Applications utilizing any supported network management card option, require the installation of two of the same model network card – install one card per included UPS power module; RELAYIOMINI installation requires removal of panel containing USB ports on each included UPS power module PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included	Operating Elevation (ft.)	0-3000m (0 to 10,000 ft.)
COMMUNICATIONS Communications Interface USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Network Management Cards SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; & a class="productLink" href="//tldcstaging.tripplite.com/Programmable-Relay-I-O-Card-RELAYIOCARD">RELAYIOCARD Network Monitoring Port Description Applications utilizing any supported network management card option, require the installation of two of the same model network card – install one card per included UPS power module; RELAYIOMINI installation requires removal of panel containing USB ports on each included UPS power module PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included	Audible Noise	60 dBA at front side 1 meter
Communications Interface USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Network Management Cards SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; <a <br="" class="productLink"> href="//tldcstaging.tripplite.com/Programmable-Relay-I-O-Card~RELAYIOCARD">RELAYIOCARD> Network Monitoring Port Description Applications utilizing any supported network management card option, require the installation of two of the same model network card – install one card per included UPS power module; RELAYIOMINI installation requires removal of panel containing USB ports on each included UPS power module PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included	Operating Elevation (m)	0-3000 m
Network Management Cards SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; <a <="" class="productLink" td=""> Network Monitoring Port Description Applications utilizing any supported network management card option, require the installation of two of the same model network card – install one card per included UPS power module; RELAYIOMINI installation requires removal of panel containing USB ports on each included UPS power module PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included	COMMUNICATIONS	
href="//tldcstaging.tripplite.com/Programmable-Relay-I-O-Card~RELAYIOCARD">RELAYIOCARD Network Monitoring Port Description Applications utilizing any supported network management card option, require the installation of two of the same model network card – install one card per included UPS power module; RELAYIOMINI installation requires removal of panel containing USB ports on each included UPS power module PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included	Communications Interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
model network card – install one card per included UPS power module; RELAYIOMINI installation requires removal of panel containing USB ports on each included UPS power module PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included	Network Management Cards	SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; <a <br="" class="productLink">href="//tldcstaging.tripplite.com/Programmable-Relay-I-O-Card~RELAYIOCARD">RELAYIOCARD
http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included	Network Monitoring Port Description	model network card – install one card per included UPS power module: RELAYIOMINI installation requires removal
	PowerAlert Software	
WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications	Communications Cable	USB, DB9 serial and EPO cables included
	WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications



LINE / BATTERY TRANSFER	
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Low Voltage Transfer to Battery Power (Setpoint)	100V
High Voltage Transfer to Battery Power (Setpoint)	300V
SPECIAL FEATURES	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic inverter bypass; Battery Independent Restart; Hot swappable UPS power module; Hot swappable batteries; Manual bypass switch
Green Energy-Saving Features	Support for daily startup and shutoff
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)
UPS Certification Details	IEC 61000-4-5 1995 B Surge Immunity
WARRANTY	
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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