

## 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 [www.tripplite.com/poweralert](http://www.tripplite.com/poweralert)
- 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
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
OUTPUT	
Output Volt Amp Capacity (VA)	16000
Output kVA Capacity (kVA)	16
Output Watt Capacity (Watts)	14400

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Undervoltage Correction	Corrects undervoltages as low as 100V
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
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
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC Suppression Joule Rating	2565
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
<b>PHYSICAL</b>	
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 (&nbsp;<a class="productLink" href="//www.tripplite.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2POSTRMKITHD</a>&nbsp;); Tower (&nbsp;<a class="productLink" href="//www.tripplite.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a>&nbsp;);
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 &nbsp;<a class="productLink" href="//www.tripplite.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2POSTRMKITHD</a>&nbsp; required; Qty 2 &nbsp;<a class="productLink" href="//www.tripplite.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a>&nbsp; required
Primary Form Factor	Rackmount



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Primary UPS Depth (mm)	656
Primary UPS Height (mm)	131
Primary UPS Width (mm)	445
Rack Height	12U
Shipping Dimensions (hwd / cm)	91.44 x 102.24 x 129.54
Shipping Dimensions (hwd / in.)	36.00 x 40.25 x 51.00
Shipping Weight (kg)	272.61
Shipping Weight (lbs.)	601.00
Unit Dimension Details	Includes 2 SU8000RT3UPM UPS/Power modules, 2 BP240V10RT3U Battery packs and SUPDMB20K parallel bypass PDU; Listed weights and dimensions for UPS/Power module and Included 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 (hwd, cm)	13.06 x 44.45 x 65.58
UPS Power Module Dimensions (hwd, in.)	5.14 x 17.5 x 25.82
UPS Power Module Weight (kg)	19.50
UPS Power Module Weight (lbs.)	43
<b>ENVIRONMENTAL</b>	
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% 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
<b>COMMUNICATIONS</b>	
Network Management Cards	<a href="#">SNMPWEBCARD</a> & <a href="#">TLNETCARD</a> & <a href="#">WEBCARDLX</a> & <a href="#">MODBUSCARD</a> & <a href="#">RELAYIOCARD</a>
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



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PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a>
Communications Cable	USB, DB9 serial and EPO cables included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Communications Interface	DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)
<b>LINE / BATTERY TRANSFER</b>	
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
<b>SPECIAL FEATURES</b>	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic inverter bypass; Hot swappable UPS power module; Hot swappable batteries; Manual bypass switch; Auto Probe Monitoring (requires WEBCARDLX); Zero transfer time; On-Line/Double-Conversion
Green Energy-Saving Features	Support for daily startup and shutoff
<b>STANDARDS &amp; COMPLIANCE</b>	
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
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <a class="insuranceLink" href="//www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>

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