



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, 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

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





- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from tripplite.eaton.com/products/power-alert
- 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

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OVERVIEW	
UPC Code	037332158222
UPS Type	On-Line On-Line
INPUT	
Input Phase	Single-Phase
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)
OUTPUT	
Output Capacity (VA)	16000
Output Capacity (kVA)	16
Output Capacity (Watts)	14400
Output Capacity (kW)	14.4
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
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 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 Rodd) Pure Sine wave Output AC Waveform (Battery Rodd) Pure Sine wave Output AC Waveform (Battery Rodd) Pure Sine wave Nominal Output Voltage(s) Supported 2009; 2089; 2409 Output AC Recipitation Output AC Maveform (Battery Rodd) Pure Sine wave Regulated Lead Acid (VRLA) Romanial Output Voltage(s) Supported Supported Valve Regulated Lead Acid (VRLA) Rattery Sattery Type Valve Regulated Lead Acid (VRLA) Runtime Full Load (min.) 13.5 min. (1200W) Expandable Runtime Yes Expandable Runtime Description Por 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 External Battery Pack Compatibility Systems-3a-BP240V18RT3U*-SP240V10RT3U*-Sa-Robsp: SP240V78CT-1PH CS System Voltage (VDC) 240 Batter, Recharge Rate (Included Batteries) Battery Replacement Description Hot-avappable, user replaceable external battery packs Voltage Regulation Description Corrects overvirtages up to 300V Underviolage Correction Corrects overvirtages 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 roisters for vewing in rack-lower formass LCD Display supports ENGLISH, FRENCH, GERMAN, TLALAN, SPANIA PAR OPK Numbers of pure selection surface propagation of pure places or pure places or pure selection services pure formass LCD Display supports ENGLISH, FRENCH, GERMAN, TLALAN, SPANIA PAR OPK NUMBER (EVERNIC) formations for pure freplacement Author Canada Operation Author Canada Image Development and desire power conditions (see manual) LED Indicators SURGE / NOISE SUPPRESSION UPS AC Suppression Joule Rating 2565		
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Output AC Waveform (Battery Mode) Douglast AC Waveform (Battery Device Sine wave Mode) Nominal Output Voltage(s) 200V; 208V; 240V Output Receptacles (2) L6-30R; (8) C19 Individually Controllable Load Banks No BATTERY Battery Type Valive Regulated Lead Acid (VRLA) Runtime Full Load (min.) 13.5 min. (14.4kW) Runtime Full Load (min.) 13.5 min. (12.00W) Expandable Runtime Yes Expandable Runtime Yes Expandable Runtime Pack Compatibility Anbap;-a class="productl.ink" herl="//ripplite eaton.com/external-24(0y-cover-battery-pack-tripp-lite-3-phase-ups-systems-3y-8P240V10RT3U-58P240V10RT3U-58P240V19RT3U-58P240V18F72-1PH DC System Voltage (VDC) Battery Replacement Description Hot-swappable, user replaceable external battery packs DC System Voltage Rate (Included Batteries) Battery Replacement Description Hot-swappable, user replaceable external battery packs VOLTAGE REGULATION VOLTAGE REGULATION VOLTAGE REGULATION VOLTAGE REGULATION Voltage Regulation Description Corrects overvoltages us 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, LEDIACD panel rotates for viewing in rack/tower formats; LCD Display supports ENGLISH, FRENCH, GERMAN, ITALAN, EARNISH and PORTUGUESE (see manual) Switches 2 Switches control offon power status and alarm-cancal/self-lest operation; 2 additional switches support set and exactes confidencement Alarm Cancel Operation Alarm cancel witch Audite Alarm Unique auditible alarms for all major UPS, environmental and power conditions (see manual) 6 LED Indicators 6 LED indicators SURGE / NOISE SUPPRESSION	Output Circuit Breakers	Two built-in 30A breakers protect one L6-30R outlet each; Eight built-in 20A breakers protect one C19 outlet each
Mode) Nominal Oriput Voltage(s) 200V: 208V: 240V Output Receptacles (2) L6-30R; (8) C19 Individually Controllable Load Banka No BATTERY Battery Type Valve Regulated Lead Acid (VRLA) Runtime Full Load (min.) 5.5 min. (14-4kW) Runtime Full Load (min.) 13.5 min. (14-4kW) Runtime Full Load (min.) 13.5 min. (14-4kW) Expandable Runtime Yes Expandable Runtime Pack Compatibility Shater sold connected batteries in multiples of two so that both included 8kWA power modules have an equal number and type of connected battery packs. External Battery Pack Compatibility Shippy-a classe-"productLink" Intel-"/rippilite.eaton.com/external-240v-tower-battery-pack-tripp-lite-3-phase-ups-systems-3u-BP240V10RT3U-5a-240v10	Output AC Waveform (AC Mode)	Pure Sine wave
Supported (2) L6-30R; (8) C19 Individually Controllable Load Banks No BATTERY Battery Type Valve Regulated Lead Acid (VRLA) Runtime Full Load (min.) 5.5 min. (14.4kW) Runtime Full Load (min.) 13.5 min. (7200W) Expandable Runtime Yes 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 External Battery Pack Compatibility Sheps-240V10RT3U-58P240V10RT3		Pure Sine wave
Individually Controllable Load Banks No BATTERY Battery Type Valve Regulated Lead Acid (VRLA) Runtime Full Load (min.) 5.5 min. (14.4kW) Runtime Half Load (min.) 13.5 min. (7200W) Expandable Runtime Yes Expandable Runtime Yes 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. External Battery Pack Compatibility Antspra class="product.link" href=//fripplitic-eaton.com/external-240v-tower-battery-pack-tripp-lite-3-phase-ups-systems-3u-BP240V10RT3U-SP240V10RT3U-Sa-Snbsp;; BP240V787C-1PH DC System Voltage (VDC) 240 Battery Replacement Description Hot-swappable, user replaceable external battery packs 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: LEDI LCD panel rotates for viewing in nacktower formats; LCD Display supports ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH and PORTUGUESE (see manual) Alarm Cancel Operation Alarm cancel switchs support set status and alarm-cancel/self-test operation; 2 additional switches support set and execute scrolling LCD functions; burdled PDU includes bypass switch to enable hot-swap UPS power module recounts corrolling and control office and control office and control office and control options BURGE / NOISE SUPPRESSION	Nominal Output Voltage(s) Supported	200V; 208V; 240V
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External Battery Pack Compatibility \$anbsp.:ac dass="product.ink" href="//hipplifite.aaton.com/external-240v-tower-battery-pack-tripp-lite-3-phase-ups-systems-3u-BP240V10RT3U'-sBP240V10RT3U-/a- ::BP240V787C-1PH DC System Voltage (VDC) 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 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) 6 LEDs indicate line power, online mode, bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options	Expandable Runtime	Yes
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Batteries) Battery Replacement Description Hot-swappable, user replaceable external battery packs 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 Unique audible alarms for all major UPS, environmental and power conditions (see manual) 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	DC System Voltage (VDC)	240
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 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		Less than 6 hours from 10% to 90% (typical, full load discharge)
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Overvoltage Correction Corrects overvoltages up to 300V 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 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	VOLTAGE REGULATION	
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 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	Voltage Regulation Description	2% output voltage regulation in standard online, double-conversion mode
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 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	Overvoltage Correction	Corrects overvoltages up to 300V
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 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	Undervoltage Correction	Corrects undervoltages as low as 100V
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 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	USER INTERFACE, ALERTS & CONTROLS	
execute scrolling LCD functions; bundled PDU includes bypass switch to enable hot-swap UPS power module replacement Alarm Cancel Operation Alarm cancel switch 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	Front Panel LCD Display	LED/LCD panel rotates for viewing in rack/tower formats; LCD Display supports ENGLISH, FRENCH, GERMAN,
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	Switches	execute scrolling LCD functions; bundled PDU includes bypass switch to enable hot-swap UPS power module
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	Alarm Cancel Operation	Alarm cancel switch
additional information and control options SURGE / NOISE SUPPRESSION	Audible Alarm	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
	LED Indicators	
UPS AC Suppression Joule Rating 2565	SURGE / NOISE SUPPRESSION	
	UPS AC Suppression Joule Rating	2565





UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Primary Form Factor	Rackmount
Rack Height	12U
Cooling Method	Fans
Included Battery Pack Dimensions (hwd / in.)	5.25 x 17.5 x 25
Included Battery Pack Weight (lbs.)	158.7
Included Battery Pack Weight (kg)	71.99
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)	96.52
Minimum Required Rack Depth (inches)	38
Optional Mounting Accessory Notes	Qty 4 2POSTRMKITHD required; Qty 2 2-9USTAND required
Primary UPS Depth (mm)	656
Primary UPS Height (mm)	131
Primary UPS Width (mm)	445
Shipping Dimensions (hwd / in.)	36.00 x 40.25 x 51.00
Shipping Dimensions (hwd / cm)	91.44 x 102.24 x 129.54
Shipping Weight (lbs.)	601.00
Shipping Weight (kg)	272.61
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





100V 300V
100V
No transfer time (0 ms.) in online, double-conversion mode
DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)
Network management card optional
Supports Watchdog application, OS and hard-reboot restart options for remote applications
USB, DB9 serial and EPO cables included
For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert
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
SNMPWEBCARD; TLNETCARD ; WEBCARDLX; MODBUSCARD ; RELAYIOCARD
60 dBA at front side 1 meter
0-3000m (0 to 10,000 ft.)
4864
90%
5464
0 to 95%, non-condensing
+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
43
19.50 43
5.14 x 17.5 x 25.82





Auto Probe Monitoring (requires WEBCARDLX); Automatic inverter bypass; Expandable battery backup; Hot swappable UPS power module; Hot swappable batteries; Manual bypass switch; N+1 Redundant up to 50% capacity; On-Line/Double-Conversion; Remote management; Sine wave output; Surge/noise protection; Zero transfer time
Support for daily startup and shutoff
Mission Critical Applications
IEC 61000; CSA (Canada); UL 1778
RoHS; FCC Part 15 Class A (USA)
2-year limited warranty
\$250,000 Ultimate Lifetime Insurance

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