

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SmartOnline 120V 208/240V 16kVA UPS – On-Line Double Conversion, 14.4kW, N+1, 14U, Network Option, TAA

MODEL NUMBER: SU16KRT-1TFTAA











16kVA N+1 UPS protects connected equipment against damage due to power outages, voltage fluctuations and transient surges.

Features

Protects Mission-Critical Rack-Mounted Equipment against Damage, Downtime and Data Loss This TAA-compliant UPS system protects connected equipment against damage, downtime and data loss due to power outages, voltage fluctuations and transient surges. Featuring a 14,400W capacity, high 0.9 power factor, true on-line operation with pure sine wave output and zero transfer time to battery, the SmartOnline® SU16KRT-1TFTAA includes two 3U UPS power modules, two 3U external battery packs, a 2U step-down transformer and a parallel PDU with maintenance switch. Using the step-down transformer, the N+1 UPS system can support both low- and high-voltage equipment.

The Complete Power Protection Solution for Advanced Networking Applications

Recommended for data centers, computer rooms, network closets and other areas with mission-critical equipment, the SU16KRT-1TFTAA actively converts raw incoming AC power to DC and then re-converts it back to regulated, filtered AC output with a pure sine wave, completely isolating connected components from all power problems. It features a 3-wire single-phase hardwire input (3-wire, single phase) and 22 total outlets—two NEMA L6-30R (208/240V), eight C19 (208/240V), eight NEMA 5-15/20R (120V) and four NEMA 5-15R (120V).

External Batteries Supply Reliable Backup with Expandable Runtime Options

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 external battery packs provide 13.5 minutes of support at half load and 5.5 minutes at full load. During normal operation, incoming utility power keeps the battery fully charged so backup power will be available when needed. For mission-critical applications demanding continuous uptime, the 16kVA UPS can provide expandable runtime with optional external battery packs, such as Tripp Lite's field-replaceable, hotswappable BP240V10RT3UTAA. A battery-independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries.

Easily Hot-Swappable to Avoid Expensive Service Calls and Downtime

With its parallel PDU, the SU16KRT-1TFTAA with manual bypass switching enables hot-swappable replacement of all major UPS system components in both N+1 and combined operating modes. It offers automatic N+1 redundancy at load levels up to 8kVA and non-redundant operation from 8kVA all the way up to 16kVA. In bypass mode, the PDU passes power to equipment without the use of the power and battery modules, allowing them to be removed while keeping your application in operation. When making

Highlights

- Zero transfer time between AC power and battery for uninterrupted operation
- PDU keeps essential equipment powered during hot-swap battery replacement or repair
- Delivers complete N+1 redundancy when used with loads up to 8kVA
- Step-down transformer supports power protection of low- and high-voltage components
- Complies with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

Applications

 Advanced networking applications in data centers, computer rooms, network closets and rugged industrial locations

Package Includes

- (2) SU8000RT3UPMTAA hotswappable UPS power modules
- SUPDMB20KTAA parallel PDU w/maintenance bypass switch
- (2) BP240V10RT3UTAA
 external battery packs
- SU6000XFMR2UTAA 208/240V to 120V transformer
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- Owner's manual



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repairs or replacing a battery, no lengthy service calls or downtime are necessary.

Intuitive Front-Panel Interface for Convenient UPS Operation and Monitoring

Front-panel LEDs indicate line power, online mode, bypass mode, on-battery, charger and AC output status at a glance. The LCD readout with scroll controls supports visual 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.

Optional WEBCARDLX Network Interface Offers 24/7 Access

An accessory slot accommodates the optional Java-free HTML5-based WEBCARDLX interface, which 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 for Protecting Valuable Data

USB and DB9 ports (cables are included) 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.

Versatile Installation Options to Match Your Setup

Hardware is included for mounting the 16kVA UPS system in 14U of space in an EIA-standard 19-inch 4-post rack. Use five optional 2POSTRMKITHD kits for 2-post rack mounting or two optional 2-9USTAND kits for mounting in an upright tower position.

TAA-Compliant UPS for GSA Schedule Purchases

The SU16KRT-1TFTAA is compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases.

2-Year Warranty and \$250K Ultimate Lifetime Insurance

The SU16KRT-1TFTAA 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).

Specifications

OVERVIEW		
OVERVIEW		
UPC Code	037332224491	
OUTPUT		
Output Volt Amp Capacity (VA)	16000	
Output kVA Capacity (kVA)	16.00	
Output Watt Capacity (Watts)	14400	
Output kW Capacity (kW)	14.40	
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 Output Voltage(s) Supported	120V; 208V; 240V	



ower module setting) 0 Hz output frequency regulation +/- 0.05Hz (free running) /- 2% /- 2% 10 5-15R; (8) 5-15/20R; (2) L6-30R; (8) C19 outal 120V output is limited to 4992 watts for 208V input and 5760 watts for 240V input. Additional 120V capacity is vailable by adding a second SU6000XFMR2U step-down transformer. OWER MODULE: Two built-in 30A breakers protect one L6-30R outlet each, Eight built-in 20A breakers protect ne C19 outlet each; TRANSFORMER MODULE: Two 15A breakers protect 2 5-15R outlets each, Two 20A reakers protect 4 5-15/20R outlets each ure Sine wave ure Sine wave
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ure Sine wave
8.4A (208V), 76.6A (240V)
08V AC; 240V AC
ardwire
wire single phase input (L1, L2, G)
00A @ 208V, or 240V (L1, L2, G)
ingle-Phase
5 minutes (14,400 watts)
3.5 minutes (7200 watts)
untime is expandable with external battery packs
P240V10RT3UTAA; <a class="productLink" href="//www.tripplite.com/External-240V-Tower-Battery-Pack-
rr-use-with-Select-Tripp-Lite-UPS-Systems-BP240V787C-1PH~BP240V787C-1PH">BP240V787C-1PH
or best results, add external batteries in multiples of two so that both included 8kVA power modules have an equal umber and type of connected battery packs
40
ess than 6 hours from 10% to 90% (typical, full load discharge)
ot-swappable, user replaceable external battery packs
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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 Response Time	Instantaneous	
EMI / RFI AC Noise Suppression	Yes	
PHYSICAL		
Included Mounting Accessory Description	5 sets of adjustable 4 post rack rails included (one for each included 2U/3U module)	
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND)	
Optional Mounting Accessory Notes	Qty 5 2POSTRMKITHD - required for 2 post rackmount installation; Qty 2 2-9USTAND - required for tower installation	
Primary Form Factor	Rackmount	
UPS Power Module Dimensions (hwd, in.)	5.14 x 17.50 x 25.82	
UPS Power Module Dimensions (hwd, cm)	13.06 x 44.45 x 65.58	
Rack Height (U Spaces)	14	
Maximum Device Depth (in.)	33	
Minimum Required Rack Depth (inches)	38	
Maximum Device Depth (cm)	83.82	
	22.70	
Minimum Required Rack Depth (cm)	96.52	
Minimum Required Rack Depth (cm) UPS Power Module Weight (lbs.)	43	



UPS Dimensions Details	Includes 2 SU8000RT3UPMTAA UPS/Power modules, 2 BP240V10RT3UTAA Battery packs, 1 SU6000XFMR2UTAA transformer and SUPDMB20KTAA parallel bypass PDU; Listed weights and dimensions for UPS/Power module, battery pack and transformer each refer to a single unit; MAXIMUM DEVICE DEPTH specification refers to the whole UPS installed depth with parallel bypass PDU installed
Stepdown Transformer Dimensions (hwd / in.)	3.50 x 17.50 x 21.80
Stepdown Transformer Dimensions (hwd / cm)	8.89 x 44.45 x 55.37
Stepdown Transformer Weight (lbs.)	73
Stepdown Transformer Weight (kg)	33.11
Included Battery Pack Dimensions (hwd / in.)	5.25 x 17.50 x 25.00
Included Battery Pack Weight (lbs.)	159
Included Battery Pack Weight (kg)	72.12
Shipping Dimensions (hwd / in.)	31.50 x 40.00 x 51.00
Shipping Dimensions (hwd / cm)	80.01 x 101.60 x 129.54
Shipping Weight (lbs.)	678.00
Shipping Weight (kg)	307.54
Cooling Method	Fans
UPS Housing Material	Steel
Maximum Device Depth (mm)	838
Stepdown Transformer Height (mm)	89
Stepdown Transformer Width (mm)	445
Stepdown Transformer Depth (mm)	554
Primary UPS Height (mm)	131
Primary UPS Width (mm)	445
Primary UPS Depth (mm)	656
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)	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



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 use of two network cards of the same-model (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	
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; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch	
Green Energy-Saving Features	Support for daily startup and shutoff	
CERTIFICATIONS		
UPS Certifications	Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); TAA Compliant; Tested to CSA (Canada); Tested to UL1778 (USA)	
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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