



SmartOnline 208/240 & 120V 16kVA 11.2kW Double-Conversion UPS, 8U, Extended Run, Network Card Slot, USB, DB9, Bypass, Hardwire

MODEL NUMBER: SU16000RT4UHW









Description

Tripp Lite's SU16000RT4UHW SmartOnline Hot-Swappable Modular Rack/Tower UPS System provides 16,000VA (16kVA) on-line, double-conversion UPS support for server, network and telecommunications equipment. Maintains battery-derived AC output during blackouts with active, full-time power conditioning. Fault-tolerant auto-bypass prevents unexpected service interruptions during overload or internal fault conditions. 4U power module and 4U external battery pack installs in 8 rack spaces (8U). Upright tower and two-post rackmount installation supported with optional accessories. Maintains full-time sine wave output within 3% of selectable 208/120 or 240/120V AC. Corrects brownouts and overvoltages from 65V to 140V (L-N). Expandable runtime with optional external battery packs. Converts raw input from AC to DC, then resynthesizes output power back to perfect sine wave AC output with enhanced protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. Network-grade AC surge and noise suppression. Network management interfaces include combination DB9 RS-232 enabled and dry contact serial port, enhanced USB port and slot for network management card options. HID-compliant USB interface enables integration with built-in power management and auto-shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all three network interfaces. PowerAlert UPS monitoring software is available via free download. Supports Emergency Power Off (EPO) via built-in interface. Front panel LEDs and LCD readout with scroll controls support visual monitoring of all major UPS functions. LED/LCD display panel easily rotates for viewing in rackmount or tower configurations. Split-phase, four-conductor hardwire input. UPS supports hardwire output. Output hardwire connections are mounted on a detachable backplate with manual bypass switch to enable hot-swappable UPS replacement without powering off connected equipment. External battery packs are field replaceable and hot swappable. Attractive all-black color scheme. \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

Highlights

- 16kVA / 16,000VA / 11,200W on-line double-conversion UPS, split phase input
- 208/120V or 240/120V +/-3% output at 60Hz, 94% Efficient Economy-mode option
- 8U Rack/Tower compatible; Hotswappable power and battery modules
- USB, RS232 and 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 (4 wire split phase); Hardwire output

Package Includes

- SU16000RT4UPM UPS Power Module
- BP192V18-4U External battery pack
- SUPDMB16KHW Detachable PDU with manual bypass switch
- 4-post rackmount installation brackets





Features

- True on-line, double-conversion UPS provides pure, full-time sine wave AC output free of surges, voltage fluctuations and line noise
- 16,000VA/11,200W output power capacity with dual voltage output of 208/120V or 240/120V
- 4U high power density power module and 4U external battery pack support rackmount installation in 8 rack spaces (8U)
- Dual conversion UPS actively converts raw input from AC to DC, then back to perfect sine wave AC
 output with enhanced protection from harmonic distortion, fast electrical impulses and other hard-tosolve power problems not addressed by other UPS types
- Hardwire input and output terminals are mounted on a detachable backplate with manual bypass switch
 to enable hot-swappable UPS replacement without powering off connected equipment
- Provides perfectly regulated, sine wave output power free of line noise, transient surges and frequency variation for the most efficient operation of critical servers, networking and telecommunications
- Maintains output within 3% of selected 208/120V or 240/120V nominal voltage during brownouts and overvoltages
- Supports connected equipment during blackouts for 12/5 min. at half/full load levels; runtime is further expandable with optional external battery packs (Model BP192V18-4U)
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Intelligent battery management system extends battery life
- · Highly efficient Economy-mode option
- Network interfaces support simultaneous communications via DB9 port, USB port and slot for network management card options
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD
- DB9 port supports RS-232 and dry contact messaging. HID-compliant USB interface enables integration
 with built-in power management and auto shutdown features of Windows and Mac OS X
- 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
- Built-in Emergency Power Off (EPO) interface with cable
- Supports hardwire output at 208V and 120V
- Split phase, four-conductor hardwire input connection on included detachable PDU
- Front panel LEDs and LCD readout with scroll button enables visual confirmation of all major UPS functions and current site electrical conditions
- Front panel switches enable power on/off control, self-test and alarm cancel functions
- Included adjustable mounting rails support installation in 4-post 19-in. rack enclosures
- Optional 2-9USTAND tower stand set supports upright tower installation
- Optional 2POSTRMKITHD accessory enables 2-post rackmount installation
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

Specifications

OVERVIEW	
UPC Code	037332140494
UPS Type	On-Line
INPUT	





Input Phase	Single-Phase
Rated input current (Maximum Load)	68A
Nominal Input Voltage(s) Supported	120/208V (Split phase L1,L2,N,G); 120/240V (Split phase L1,L2,N,G)
UPS Input Connection Type	Hardwire
UPS Input Connection Description	4 wire split-phase input (L1, L2, N, G)
Recommended Electrical Service	70A 208/240-120 Split Phase (L1, L2, N, G); 4 AWG wiring recommended
ОИТРИТ	
Output Capacity (VA)	16000
Output Capacity (kVA)	16
Output Capacity (Watts)	11200
Output Capacity (kW)	11.2
Output Capacity Details	16,000VA, 11,200W (240V) / 13,860VA, 11,200W (208V); Supports up to 105% load continuously in double conversion mode, 106 to 125% for 3 minutes, 126 to 150% for 30 seconds; Loads over 150% trigger immediate bypass mode operation to support equipment directly from mains power; Double conversion mode is automatically restored as the overload is cleared
Power Factor	0.7
Crest Factor	3:1
Nominal Voltage Details	240/120V or 208/120V split phase output
Frequency Compatibility	60 Hz
Output Voltage Regulation (Line Mode)	+/- 3%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 3%
Output Receptacle Details	Supports North American 208/120V or 240/120V split-phase output (L1, L2, N, G)
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	120V; 208V; 240V
Output Receptacles	Hardwire
Individually Controllable Load Banks	No
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	5 min. (11,200w)
Runtime Half Load (min.)	12 min. (5600w)
Expandable Runtime	Yes
External Battery Pack Compatibility	BP192V18-4U





DC System Voltage (VDC)	192		
Battery Recharge Rate (Included Batteries)	Less than 6 hours from 10% to 80% (typical, full load discharge)		
Battery Replacement Description	Hot-swappable, user replaceable external battery packs		
VOLTAGE REGULATION	VOLTAGE REGULATION		
Voltage Regulation Description	+/-3% output voltage regulation in online, double-conversion mode		
Overvoltage Correction	Corrects overvoltages to 140 (measured L1-N : L2-N)		
Undervoltage Correction	Corrects undervoltages to 65V (measured L1-N : L2-N)		
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		
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, economy/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	3620		
UPS AC Suppression Response Time	Instantaneous		
EMI / RFI AC Noise Suppression	Yes		
PHYSICAL			
Primary Form Factor	Rackmount		
Rack Height	8U		
Cooling Method	Fan		
Included Battery Pack Dimensions (hwd / in.)	7 x 17.5 x 27.8		
Included Battery Pack Weight (lbs.)	239		
Included Battery Pack Weight (kg)	108.41		
Included Mounting Accessory Description	2 sets of adjustable 4 post rack rails included		
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)	86.36		
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Maximum Device Depth (in.)	34	
Maximum Device Depth (mm)	864	
Minimum Required Rack Depth (cm)	101.60	
Minimum Required Rack Depth (inches)	40	
Optional Mounting Accessory Notes	2 sets of 2POSTRMKITHD required for 2 post rackmount installation of separate power module and battery pack	
Primary UPS Depth (mm)	706	
Primary UPS Height (mm)	178	
Primary UPS Width (mm)	445	
Shipping Dimensions (hwd / in.)	36.50 x 24.00 x 33.50	
Shipping Dimensions (hwd / cm)	92.71 x 60.96 x 85.09	
Shipping Weight (lbs.)	455.80	
Shipping Weight (kg)	206.75	
Unit Dimension Details	Includes 4U battery pack, 4U UPS/power module and detachable bypass PDU; MAXIMUM DEVICE DEPTH specification refers to the whole UPS installed depth with bypass PDU installed	
UPS Housing Material	Steel	
UPS Power Module Dimensions (hwd, cm)	17.78 x 44.45 x 70.61	
UPS Power Module Dimensions (hwd, in.)	7 x 17.5 x 27.8	
UPS Power Module Weight (kg)	39.01	
UPS Power Module Weight (lbs.)	86	
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)	5717	
AC Economy Mode BTU / Hr. (Full Load)	2438	
AC Economy Mode Efficiency Rating (100% Load)	94%	
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	4248	
Operating Elevation	0-3000m (0 to 10,000 ft.)	
Audible Noise	60 dBA at front side 1 meter	
COMMUNICATIONS		





Network Management Cards	SNMPWEBCARD; TLNETCARD ; WEBCARDLX; MODBUSCARD ; RELAYIOCARD
Network Monitoring Port Description	RS232 and contact closure communications are supported on one DB9 port
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 and DB9 cabling included
Communications Interface	Contact closure; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)
LINE / BATTERY TRANSFER	
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Transfer Time (Economy Mode)	2 milliseconds typical in optional economy mode
Low Voltage Transfer to Battery Power (Setpoint)	65V (L1-N:L2-N)
High Voltage Transfer to Battery Power (Setpoint)	140V (L1-N:L2-N)
FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring (requires WEBCARDLX); Automatic inverter bypass; Expandable battery backup; Hot swappable UPS power module; Hot swappable batteries; Manual bypass switch; On-Line/Double-Conversion; Remote management; Sine wave output; Surge/noise protection; Zero transfer time
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
APPLICATIONS	
UPS Applications	Mission Critical Applications
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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