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Model #: SU12000RT4U

SmartOnline 12kVA On-Line Double-Conversion UPS, 8U Rack/Tower, 208/120V or 240/120V Hardwire & NEMA outputs, Split phase input

Highlights



- 12kVA / 12,000VA / 8400W on-line double-conversion UPS
- 208/120V or 240/120V +/-3% output at 60Hz
- 8U Rack / Tower compatible; Hot-swappable power and battery modules
- USB, RS232 & EPO ports; support for SNMP/WEB 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); L6-30R, C19 & 5-15/20R outlets

Description

Tripp Lite 12kVA SmartOnline Hot-Swappable Modular Rack/Tower UPS offers 12,000 VA 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 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 SNMPWEBCARD slot. 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 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. 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 4 conductor hardwire input and output supported. UPS supported outlets include two L6-30R, six C19 and 5 low voltage 5-15/20R. Output 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 [connected equipment insurance](#);

Package Includes

- SU12000RT4UPM 4u UPS Power Module
- BP192V18-4U External battery pack
- SUPDMB16K Detachable PDU with manual bypass switch
- 4 post rackmount installation brackets

Features

- True online, double-conversion UPS provides pure, full-time sine wave AC output free of surges, voltage fluctuations and line noise
- 12,000 VA / 8400 watt output power capacity with dual voltage output of 208/120 or 240/120V
- 4U high power density power module and 4U external battery pack supports rackmount installation in 8 rack spaces
- 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-to-solve power problems not addressed by other UPS types
- Hardwire input terminals and output receptacles are mounted on a detachable back plate 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 equipment
- Maintains output within 3% of selected 208/120 or 240/120V nominal voltage during brownouts and overvoltages

- Supports connected equipment during blackouts for 20/7 minutes at half/full load levels, runtime is further expandable with optional external BP192V18-4U battery packs
- Some external battery configurations require the use of Tripp Lite's [External Battery Configuration Software](#) (see manual)
- Network interfaces support simultaneous communications via DB9 port, USB port and SNMPWEBCARD slot. 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.
- Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- Communications ports support on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter shutoff, activate self-test and output power control
- Built-in Emergency Power Off (EPO) interface with cable
- Includes 13 output receptacles (2 L6-30R, 6 C19, 5 NEMA 5-15/20R) plus hardwire output, all of which are available for simultaneous use
- Split phase, 4 conductor hardwire input connection (featured 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 inch rack enclosures
- Optional 2-9USTAND set of tower stands supports upright tower installation
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico and Canada only)

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	12000
Output kVA capacity (kVA)	12
Output Watt Capacity (watts)	8400
Output kW capacity	8.4
Output power factor	0.7
Output Capacity Details	12,000 VA (240V) / 10,395 VA (208V) / 8400 watts (208/240V)
Crest Factor	3:1
Nominal Output Voltage(s) Supported	120V; 208V; 240V
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%
Built-in UPS output receptacles	5 5-15/20R outlet(s); 2 L6-30R outlet(s); 6 C19 outlet(s); Hardwire

Output circuit breaker	20A branch rated double pole breakers (x3) protect 2 C19 and 1 5-15/20R outlets each, 30A branch rated double pole breakers (x2) protect 1 L6-30R outlet each, 20A single pole breakers (x2) protect one 5-15/20R outlet each
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Pure Sine wave
INPUT	
Rated input current (at maximum load)	50A
Nominal Input Voltage(s) Supported	208V AC / 120V AC (4 wire split single phase); 240V AC /120V AC (4 wire split single phase)
UPS input connection type	Hardwire
UPS input connection description	4 wire split-phase input (L1, L2, N, G)
Recommended Electrical Service	50A 208/240-120 Split Phase
BATTERY	
Full load runtime (minutes)	7 min. (8400w)
Half load runtime (minutes)	20 min. (4200w)
Expandable battery runtime	Supports extended runtime with optional external battery packs
External battery pack compatibility	BP192V18-4U ; BP192V557C-16K ; BP192V787C-16K ; BP192V1037C-16K ; BP192V1407C-16K
DC system voltage (VDC)	192
Battery recharge rate (included batteries)	Less than 6 hours from 10% to 80%
Battery replacement description	Hot-swappable, user replaceable batteries
VOLTAGE REGULATION	
Voltage regulation description	Online, double-conversion power conditioning
Overvoltage correction	3% output voltage regulation during overvoltages to 140 (measured L1-N : L2-N)
Undervoltage correction	3% output voltage regulation during undervoltages to 65 (measured L1-N : L2-N)
LEDS ALARMS & SWITCHES	
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
Alarms	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
Alarm cancel operation	Alarm cancel switch
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
SURGE / NOISE SUPPRESSION	

UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	
Installation form factors supported with included accessories	4 post 19 inch rackmount (mounting rail kit included)
Included mounting accessory description	2 sets of adjustable 4 post rack rails included
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Tower (2-9USTAND)
Optional mounting accessory notes	2 sets of 2POSTRMKITWM required for 2 post rackmount installation
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	7 x 17.5 x 40.5
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	17.8 x 44.4 x 102.9
Installed whole system maximum rack depth (inches)	40.5
Installed whole system maximum rack depth (cm)	102.9
Installed whole system total rack space height (rack spaces)	8U
Secondary form factor	Tower (requires 2-9USTAND)
UPS / Power Module weight (lbs)	86
UPS / Power Module weight (kg)	39
UPS dimensions details	Includes 4U power module and 4U battery pack
Included battery pack dimensions (height x width x depth / inches)	7 x 17.5 x 27.8
Included battery pack dimensions (height x width x depth / cm)	17.7 x 44.4 x 70.6
Included battery pack weight (lbs)	239
Included battery pack weight (kg)	108.5

UPS Shipping dimensions (height x width x depth / inches)	45.5 x 23.5 x 34.3
UPS Shipping dimensions (height x width x depth / cm)	115.6 x 59.7 x 87.1
Shipping weight (lbs)	448.8
Shipping weight (kg)	203.8
UPS housing material	Steel
Cooling method	Fan
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)	4286
Battery mode BTU / hr. (full load)	3187
AC economy mode efficiency rating (100% load)	94%
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; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	RS232 and contact closure communications are supported on one DB9 port
PowerAlert software	Included
Communications cable	USB and DB9 cabling included
LINE / BATTERY TRANSFER	
Transfer time	No transfer time (0 ms.) in online, double-conversion 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)
SPECIAL FEATURES	

Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
High availability UPS features	Automatic inverter bypass; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; Hot swappable batteries
Green & high efficiency features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance

Related Items

Optional Products

Related Model	Description	Qty.
SNMPWEBCARD	For remote monitoring and control via SNMP, Web, or Telnet.	1
ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
SRSWITCH	Magnetic Door Switch Kit for front and rear doors; requires ENVIROSENSE	1
WEXT3-SU12000	3-Year Extended Warranty - For SU12000 High/Low Voltage UPS Models	1
WEXT5-SU12000	5-Year Extended Warranty - For SU12000 High/Low UPS Voltage UPS Models	1
BP192V18-4U	BP192V18-4U - External Battery Pack for UPS System	1
2-9USTAND	Enables Tower Placement of Rackmount UPS Systems	1
2POSTRMKITHD	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	1
PDUMV20	Single-Phase Metered PDU, 20A 120V, 0U Vertical Rackmount, NEMA 5-15/20R outlets, NEMA L5-20P input with 5-20P adapter	1
PDUMV20HV	Single-Phase Metered PDU, 20A 200-240V, 0U Vertical Rackmount, C19 & C13 outlets, C20 inlet with NEMA L6-20P input cable	1
PDUMV30HV	Single-Phase Metered PDU, 30A 208/240V, 0U Vertical Rackmount, C19 & C13 outlets, NEMA L6-30P input plug	1
PDUMNV20	Single-Phase Monitored PDU, 20A 120V, 0U Vertical Rackmount, NEMA 5-15/20R outlets, NEMA L5-20P input with 5-20P adapter	1
PDUMNV20HV	Single-Phase Monitored PDU, 20A 200-240V, 0U Vertical Rackmount, C13 & C19 outlets, C20 inlet with NEMA L6-20P input cable	1
PDUMNV30HV	Single-Phase Monitored PDU, 30A 208/240V, 0U Vertical Rackmount, C13 & C19 outlets, NEMA L6-30P input plug	1
PDUMV20HVNET	Single-Phase Switched PDU, 20A 200-240V, 0U Vertical Rackmount, C13 & C19 outlets, C20 inlet and NEMA L6-20P cable	1
PDUMV30HVNET	Single-Phase Switched PDU, 30A 208/240V, 0U Vertical Rackmount, C13 & C19 outlets, NEMA L6-30P input plug	1
AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	1
MODBUSCARD	For remote monitoring and control via MODBUS protocol	1

P036-006	6-ft. 12AWG Heavy Duty Power cord (IEC-320-C19 to IEC-320-C20)	1
P041-001-2	1-ft. 10AWG Heavy Duty Power Splitter Cable (NEMA L6-30P to 2x NEMA L6-30R)	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?variables.txtModelID=4662.

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