

## SmartOnline 6kVA On-Line Double-Conversion UPS, 6U Rack/Tower, 200-240V Hardwire output

MODEL NUMBER: **SU6000RT3UHV**



### Description

Tripp Lite Smart Online UPS systems offer high performance power protection ideal for critical server and network equipment in datacenters, computer rooms and network closets. Online, double-conversion Uninterruptible Power Supply (UPS) maintains perfectly regulated output power by continuously converting raw AC input to DC, then re-converting output back to AC. Fully regulated sine wave AC output with +/-2% voltage regulation powers network equipment continuously, even during severe brownouts and overvoltages, all without depleting UPS battery reserves. Maintains battery-derived AC output during power failures with zero transfer time. Extended runtime options available. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Highly efficient operation in optional economy mode saves BTU heat output and energy costs. Network management interfaces support communications via RS-232, contact-closure and optional SNMPWEBCARD network interface. Built-in DB9 port offers both enhanced RS-232 data and basic contact closure monitoring ability. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. LED display reports UPS operating mode, line power availability, battery mode operation, inverter operation, ECO mode status and output power availability. Audible alarm with push-button momentary alarm-cancel and silent-mode LCD configuration options. Programmable self-test. Fault-tolerant auto-bypass mode. Field-replaceable, hot-swappable internal batteries and external battery packs.

### Features

- True on-line, double conversion UPS provides pure, sine wave AC output at all times
- World-wide compatibility with Euro 50Hz and High Voltage North American 60Hz power
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, electrical impulses, frequency variations and other hard to solve power problems
- 6000VA/4200 watt power capacity with hardwire input/output connections
- Accepts input voltages between 156 and 276, regulating output within 2% of selectable 200/208/220/230/240v AC output
- 20 minutes runtime at half load (2100W) / 8 minutes at full load (4200W) with included BP240V7RT3U external battery pack
- Expandable runtime with multiple external battery packs
- Innovative design makes unit adaptable for rackmount, tower, or stacking applications

### Highlights

- 6000VA / 6kVA / 4200W on-line double-conversion UPS
- 200/208/220/230/240V 50/60Hz output, Economy mode option
- 6U Rack/Tower compatible; Hot-swappable battery modules
- RS232 & EPO ports; support for SNMP/WEB card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Ships with standard capacity BP240V7RT3U battery pack
- Hardwire input (3 wire); Hardwire output

### Package Includes

- SU6000RT3UPM 3U Power Module
- BP240V7RT3U non-expandable 3U battery pack
- PowerAlert software and complete cabling
- Complete mounting hardware for 4 post rack installation
- 2-9U STAND tower stand set
- Warranty information
- Instruction manual



- Power module and battery pack require only 3 rack spaces each (6U total rack space usage)
- DB9 serial port for network interface; SNMP compatible
- Slot for optional SNMP/web card (part# SNMPWEBCARD)
- PowerAlert unattended shutdown software and 6 ft. network cable included
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Diagnostic LEDs
- Mounting hardware included with each 3U module for 4 post rackmount installation, 2 post telecom rack compatible with separate purchase 2POSTRMKITWM (2 required)
- Includes RJ11 EPO (emergency power off) port and interconnection cable
- \$250,000 Ultimate Lifetime Insurance (USA , Puerto Rico, & Canada Only)

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	6000
Output kVA capacity (kVA)	6
Output Watt Capacity (watts)	4200
Output kW capacity	4.2
Output power factor	0.7
Crest Factor	3:1
Nominal Output Voltage(s) Supported	200V; 208V; 220V; 230V; 240V
Nominal Voltage details	Voltage selection via front panel LCD interface
Frequency compatibility	50 / 60 Hz
Frequency compatibility details	Output frequency matches input nominal on startup
Output voltage regulation (line mode)	+/- 2%
Output voltage regulation (Economy line mode)	+/- 10%
Output voltage regulation (Battery mode)	+/- 2%
Built-in UPS output receptacles	Hardwire
Output receptacle backplate options	Optional SUPDM11 backplate adds 2 L6-30R outlets and L6-30P input cord
Output circuit breaker	40A double-pole
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Pure Sine wave
INPUT	
Rated input current (at maximum load)	30A



Nominal Input Voltage(s) Supported	200V AC; 208V AC; 220V AC; 230V AC; 240V AC
UPS input connection type	Hardwire
UPS input connection description	3 wire single phase input (L1, L2, G); optional, country-specific SUPDM11 backplate adds 2 L6-30R outlets and L6-30P input cord
Input circuit breaker	40A double-pole
Recommended Electrical Service	30A 208/220/230/240V
Phase	Single-Phase
<b>BATTERY</b>	
Full load runtime (minutes)	8 min. (4200w)
Half load runtime (minutes)	20 min. (2100w)
Expandable battery runtime	Includes one non-expandable BP240V7RT3U (limit 1) external battery pack. No additional BP240V7RT3U external battery packs can be connected to the host UPS, beyond the one included with the <a href="#">SU6000RT3UHV</a> UPS bundle. All additional battery packs connected beyond the included BP240V7RT3U, must be <a href="#">BP240V10RT3U</a> , <a href="#">BP240V557C-1PH</a> , <a href="#">BP240V787C-1PH</a> , <a href="#">BP240V1037C-1PH</a> or <a href="#">BP240V1407C-1PH</a>
External battery pack compatibility	<a href="#">BP240V10RT3U</a> ; <a href="#">BP240V557C-1PH</a> ; <a href="#">BP240V787C-1PH</a> ; <a href="#">BP240V1037C-1PH</a> ; <a href="#">BP240V1407C-1PH</a>
DC system voltage (VDC)	240
Battery recharge rate (included batteries)	Less than 6 hours from 10% to 80%
Battery replacement description	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
Voltage regulation description	Online, double-conversion power conditioning
Overvoltage correction	2% output voltage regulation during overvoltages to 276
Undervoltage correction	2% output voltage regulation during undervoltages to 156
<b>LEDS ALARMS &amp; SWITCHES</b>	
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
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 (see manual)
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
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC suppression joule rating	1320
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes



PHYSICAL	
Installation form factors supported with included accessories	Tower
Included mounting accessory description	2 sets of adjustable 4 post rack rails included
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM)
Optional mounting accessory notes	2 sets of <a href="#">2POSTRMKITWM</a> required for 2 post rackmount installation of separate power module and battery pack
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	5.2 x 17.5 x 26
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	13.3 x 44.4 x 66
Installed whole system maximum rack depth (inches)	26
Installed whole system maximum rack depth (cm)	66
Rack Height	6U
Secondary form factor	Tower (requires <a href="#">2-9USTAND</a> )
UPS / Power Module weight (lbs)	43.8
UPS / Power Module weight (kg)	19.9
UPS dimensions details	Includes 3U power module and 3U battery pack
Included battery pack dimensions (height x width x depth / inches)	5.2 x 17.5 x 25
Included battery pack dimensions (height x width x depth / cm)	13.3 x 44.4 x 63.5
Included battery pack weight (lbs)	136.5
Included battery pack weight (kg)	62
UPS Shipping dimensions (height x width x depth / cm)	0 x 0 x 0
Shipping weight (lbs)	323
Shipping weight (kg)	146.6
Cooling method	Fan
UPS housing material	Steel
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)	1412.3
AC economy mode BTU / hr. (full load)	911.5
Battery mode BTU / hr. (full load)	1586.7
AC mode efficiency rating (100% load)	91%
AC economy mode efficiency rating (100% load)	94%
Audible Noise	60 dBA at front side 1 meter
<b>COMMUNICATIONS</b>	
Communications interface	DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	RS232 and contact closure communications are located on two separate DB9 ports
PowerAlert software	Included
Communications cable	DB9 cable included
<b>LINE / BATTERY TRANSFER</b>	
Transfer time	No transfer time (0 ms.) in online, double-conversion mode
Low voltage transfer to battery power (setpoint)	156
High voltage transfer to battery power (setpoint)	276
<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 batteries
Green & high efficiency features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
<b>CERTIFICATIONS</b>	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); CE; Tested to GOST (Russia); Tested to SASO (Saudi Arabia); Tested to IRAM (Argentina); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year limited warranty

## Related Items

### Optional Products



Model Number	Description	Qty.
<a href="#">AS400CABLEKIT2</a>	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	1
<a href="#">SNMPWEBCARD</a>	For remote monitoring and control via SNMP, Web, or Telnet.	1
<a href="#">ENVIROSENSE</a>	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
<a href="#">SU30ACORD</a>	SU30ACORD - Optional Input Cord for UPS System	1
<a href="#">SUPDM11</a>	Corded UPS Backplate Outlet Kit - Adds AC plug-in connection and AC output receptacle to SU6000RT3UHV UPS	1
<a href="#">BP240V557C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
<a href="#">BP240V787C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
<a href="#">BP240V1037C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
<a href="#">BP240V1407C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
<a href="#">WEXT3-SU6000HV</a>	3-Year Extended Warranty - For SU6000RT3UHV only	1
<a href="#">WEXT5-SU6000HV</a>	5-Year Extended Warranty - For SU6000RT3UHV only	1
<a href="#">BP240V10RT3U</a>	External Battery Pack and Cable. 3U, Expandable, Black 3-Point Connector	1
<a href="#">2POSTRMKITHD</a>	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at:

<http://www.tripplite.com/sku/SU6000RT3UHV>.

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