

SmartOnline 208/240, 230V 6kVA 5.4kW Double-Conversion UPS, 4U Rack/Tower, Extended Run, SNMPWEBCARD Option, USB, DB9 Serial, Bypass Switch, C19

НОМЕР МОДЕЛИ: **SU6000RT4UHVVG**



Описание

Tripp Lite SU6000RT4UHVVG 6000VA / 6kVA / 5400 watt on-line, double-conversion UPS system offers complete power protection for critical server, network and telecommunications equipment in a single 4U rack/tower compatible housing. Full-time active power conditioning provides clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions and line noise. Fault-tolerant auto-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions. Detachable back panel PDU with manual bypass switch supports hot-swappable whole UPS replacement with no interruption to connected equipment. Single all-in-one rack / tower housing installs in only 4 rack spaces(4U) with a maximum installed depth of only 20.7 in. / 52.6cm. Maintains full-time sine wave output within 2% of selectable 200/208/220/230/240V nominal during brownouts as low 100V and overvoltages as high as 300V. Expandable runtime is supported with optional [BP192V12-3U](#) external battery packs. Battery independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement. Double-conversion operation converts raw input from AC to DC, then re-synthesizes output power back to perfect sine wave AC 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 significantly reduces BTU heat output and operating energy costs. Network-grade AC surge and noise suppression. Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232 and USB interfaces. Optional SNMP/Web and contact-closure communications card accessories available. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Included PowerAlert monitoring software offers detailed site power and UPS updates with support for safe auto-shutdown of connected systems as UPS batteries become depleted. Included software packages include PowerAlert Local, PowerAlert Network Shutdown Agent and PowerAlert Network Management System for complete support for a wide variety of application types. Supports Emergency Power Off(EPO) via built-in interface. Front panel LEDs and LCD readout with scroll controls support front-panel visual monitoring of all major UPS for a variety of control options to support advanced UPS settings and configurations. LED / LCD display panel rotates for viewing in rackmount or tower configurations. Hardwire input and 4 C19 outlets. Support for optional North American and International cordsets. External battery packs are field replaceable and hot swappable.

Основные возможности

- 6kVA / 6000VA / 5400W on-line double-conversion UPS; 0.9 power factor
- Included maintenance bypass switch enables live replacement of UPS with zero downtime
- 200/208/220/230/240V 50/60Hz output; High efficiency economy mode option
- 4U Rack/Tower compatible; Hot-swap power and battery modules
- USB, RS232 & EPO ports; SNMP/WEB and contact-closure card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs
- Hardwire input (3 wire) with optional cordsets available; C19 outlets

Комплект поставки

- [SU6000RT4UHVPM](#) Hot-swappable UPS Power Module
- [SUPDMB6KIEC](#) Detachable PDU with Maintenance Bypass Switch
- PowerAlert Software CD
- 1 x 6-ft. USB Cable
- 1 x 6-ft. DB9 Cable
- 4-Post Rackmount Hardware

Свойства

- Tripp Lite SU6000RT4UHVG 6000VA / 6kVA / 5400 watt on-line, double-conversion UPS system in a single 4U rack/tower compatible housing(output is limited to 4992 watts when used at 208V with L6-30P input plug)
- Full-time active power conditioning maintains clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions and line noise
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Detachable back panel PDU contains hardwire input line cord connection, output receptacles and manual bypass switch to support hot-swappable whole UPS replacement with no interruption to connected equipment
- Hardwire input and 4 C19 output receptacles
- Included rail kit supports 4U 19 inch rackmount installation in 4 post racks
- Optional [2POSTRMKITHD](#) supports installation in 2 post 19 inch racks(1 required for SU6000RT4UHVG)
- Optional [2-9U STAND](#) supports upright tower placement(1 required for SU6000RT4UHVG)
- Maximum installed rack depth of only 20.7 in. / 52.6cm
- Maintains full-time sine wave output within 2% of selected 200/208/220/230/240V nominal in double conversion mode
- Corrects brownouts to 156V at full load(100V at 50% load or less)
- Corrects overvoltages to 290V at full load(300V at 90% load or less)
- Supports 50/60Hz operation for worldwide frequency compatibility
- Double-conversion operation offers full-time AC to DC, then DC to AC conversion to maintain perfectly regulated 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
- High efficiency ECONOMY MODE operation significantly reduces BTU heat output and operating energy costs
- Network-grade AC surge and noise suppression
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232, USB and optional SNMP card slot interfaces
- UPS card slot supports one card-based network interface option(part # [SNMPWEBCARD](#)) or dry-contact monitoring accessory(part # [RELAYIOCARD](#))
- Optional [SNMPWEBCARD](#) offers communications and control via secure remote web and network interfaces
- Optional [RELAYIOCARD](#) supports six configurable hard contact closure outputs for custom event notification
- Optional [RELAYIOMINI](#) interface module offers three configurable hard contact closure outputs for custom event notification(requires removal of USB interface module)
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Includes Free PowerAlert monitoring software packages; PowerAlert LOCAL for desktops and small business networks, PowerAlert NSA(Network Shutdown Agent) for larger networks and PowerAlert NMS(Network Management System) for monitoring up to 250 SNMP-enabled UPS, PDU and other networking devices
- Front panel LEDs and LCD readout with scroll controls support front-panel visual monitoring of all major UPS functions with support for a variety of control options to support advanced UPS settings and configurations
- LED/LCD display panel rotates for viewing in rackmount or tower configurations
- Supports Emergency Power Off(EPO) via built-in interface
- Battery independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement
- [BP192V12-3U](#) external battery packs are field replaceable and hot swappable
- Intelligent battery management system with temperature-compensated charging extends battery life
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software(see manual)
- Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz(no de-rating)

Спецификации

ВЫХОД	
Выходная мощность (ВА)	6000
Выходная мощность (кВА)	6.0
Выходная мощность (Вт)	5400
Выходная мощность (кВт)	5.4
Сведения о выходной мощности	Output capacity de-rates to 4992 watts when used at 208V with optional L6-30P line cord; 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 the overload is cleared
Коэффициент электрической мощности	0.9
Коэффициент формы	3:1
Поддержание номинального(-ых) выходного(-ых) напряжения(-ий)	208V; 220V; 230V; 240V
Сведения о номинальном напряжении	Voltage selection via front panel LCD interface
Совместимость по частоте	50 / 60 Hz
Сведения о совместимости по частоте	Output frequency matches input nominal on startup; Frequency conversion mode enable conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating)
Стабилизация выходного напряжения (при работе от сети)	+/- 2%
Стабилизация выходного напряжения (при работе от сети в экономичном режиме)	+/- 10%
Стабилизация выходного напряжения (при работе от батарей)	+/- 2%
Выходные розетки	(4) C19
Характеристики выходных розеток	Output receptacle and input connections are mounted on a detachable PDU backplate with bypass switch to enable hot-swappable power module replacement
Выходные автоматические выключатели	Two 20A breakers protect 2 C19 outlets each
Форма выходного напряжения (в режиме работы от сети переменного тока)	Pure Sine wave
Форма выходного напряжения (в режиме работы от батарей)	Pure Sine wave
ВХОД	
Номинальный входной ток (при максимальной нагрузке)	31.9A (200V), 30.6A (208V), 29A (220V), 27.7A (230V), 26.6A (240V)
Поддержание номинального(-ых) входного(-ых) напряжения(-ий)	200V AC; 208V AC; 220V AC; 230V AC; 240V AC

Описание номинального входного напряжения	Factory configured to 208V
Тип входного разъема ИБП	Hardwire
Описание входного разъема ИБП	Supports North American 208/240V input (L1,L2,G) or International 230/220/240V (L,N,PE) input wiring; Optional SU30ACORD offers NEMA L6-30P input
Рекомендуемые источники электропитания	40A (200/208v); 30-32A (220/230/240v)
Количество фаз на входе	Single-Phase
БАТАРЕЯ	
Время работы при полной нагрузке (мин.)	2 minutes (5400 watts)
Время работы при половинной нагрузке (мин.)	8.5 minutes (2700 watts)
Продление времени работы от батарей	Runtime is expandable with external battery packs
Совместимость внешних блоков аккумуляторных батарей	BP192V1037C-1PH ; BP192V12-3U ; BP192V1407C-1PH ; BP192V557C-1PH ; BP192V787C-1PH
Системное напряжение постоянного тока (В)	192
Скорость зарядки батарей (для штатных батарей)	6 hours from 10% to 90% (typical, full load discharge)
Запасной блок внутренних батарей ИБП	RBC5-192
Доступ к батарее	Front panel battery access door
Описание процедуры замены батарей	Hot-swappable, user replaceable internal batteries
Возможность продления времени работы	Yes
СТАБИЛИЗАЦИЯ НАПРЯЖЕНИЯ	
Описание системы стабилизации напряжения	Online, double-conversion power conditioning
Корректировка повышенного напряжения	Corrects overvoltages as high as 300V (<90% load) and 280V (full load)
Корректировка понижений напряжения	Corrects undervoltages as low as 100 (<50% load) and 155V (full load); derates linearly
ИНТЕРФЕЙС , ПРЕДУПРЕЖДЕНИЯ и УПРАВЛЕНИЯ	
ЖК-дисплей на передней панели	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
Переключатели	Includes main power off/on switch, plus 2 switches to set and execute scrollable LCD functions. A manual bypass switch featured on the detachable PDU allows for complete removal of the UPS during routine maintenance without disrupting power to connected loads.
Отключение аварийного сигнала	Alarm cancel switch

Звуковой сигнал	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
Светодиодные индикаторы	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
ПОДАВЛЕНИЕ ВЫБРОСОВ / ШУМОВ	
Время реакции ИБП на выбросы напряжения переменного тока	Instantaneous
ФИЗИЧЕСКИЕ ПАРАМЕТРЫ	
Описание монтажной оснастки в комплекте поставки	Includes 4 post rackmount installation accessories
Первичный форм-фактор	Rackmount
Размеры силового модуля ИБП (ВхШхГ в дюймах)	6.85 x 17.5 x 20.67
Размеры силового модуля ИБП (ВхШхГ в см)	17.4 x 44.5 x 52.5
Высота шкафа (в стойко-местах)	4
Максимальная глубина устройств (дюймы)	20.7
Минимально необходимая глубина шкафа (дюймы)	28.7
Максимальная глубина устройств (см)	52.6
Минимально необходимая глубина шкафа (см)	72.8
Масса силового модуля ИБП (в фунтах)	108
Масса силового модуля ИБП (в кг)	49
Транспортные габариты ИБП (ВхШхГ в дюймах)	12.7 x 23.6 x 29.1
Транспортные габариты ИБП (ВхШхГ в см)	32.3 x 59.9 x 73.9
Транспортировочная масса (фунты)	156.5
Транспортировочная масса (кг)	71.1
Метод охлаждения	Fans
Материал корпуса ИБП	Steel
УСЛОВИЯ ОКРУЖАЮЩЕЙ СРЕДЫ	
Диапазон рабочих температур	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Диапазон температур хранения	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Относительная влажность	0 to 95%, non-condensing

Тепловыделение при работе от сети, БТЕ/ч (при полной нагрузке)	1767
Тепловыделение при работе от сети в экономичном режиме, БТЕ/ч (при полной нагрузке)	707
Номинальный КПД в режиме работы от сети переменного тока (при 100% нагрузке)	90%
Номинальный КПД в экономичном режиме работы от сети переменного тока (при 100% нагрузке)	96%
Рабочая высота (фт.)	0-3000m (0 to 10,000 ft.)
Низкочастотный шум	60 dBA at front side 1 meter
Рабочая высота (м)	0-3000 m
СВЯЗЬ	
Интерфейс связи	USB
Описание порта мониторинга сети	Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI interface cards. RELAYIOMINI installation requires removal of panel containing USB ports
Программное обеспечение PowerAlert	Included
Кабель связи	USB, DB9 serial and EPO cables included
Поддержка приложения WatchDog	Yes
ПЕРЕКЛЮЧЕНИЕ НА БАТАРЕЮ	
Время переключения	No transfer time (0 ms.) in online, double-conversion mode
Время переключения (экономичный режим)	8 ms. typical power failure response in optional economy mode
Нижнее напряжение для перехода на питание от батарей (задаваемое значение)	156V (full load) / 100V (50% load or less, derates linearly)
Верхнее напряжение для перехода на питание от батарей (задаваемое значение)	280V (full load) / 300V (90% load or less)
СПЕЦИАЛЬНЫЕ ВОЗМОЖНОСТИ	
"Холодный" старт (запуск в режиме питания от батарей во время отключения электроэнергии)	Cold-start operation supported
СЕРТИФИКАЦИИ	



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Сведения о сертификации ИБП	CE; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); Tested to CSA (Canada); Tested to UL1778 (USA)	IEC 61000-4-5 1995 B Surge Immunity
ГАРАНТИЯ		
Гарантийный период (все страны)	2-year limited warranty	
Страхование оборудования на период действия гарантии (США, Канада и Пуэрто-Рико)	\$250,000 Ultimate Lifetime Insurance	

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