SmartPro 208 & 120V 5kVA 4kW Line-Interactive Sine Wave UPS, 6U, Extended Run, Network Card Options, USB, DB9

MODEL NUMBER: **SMART5000RT3U**





Highlights

- 5kVA / 5000VA / 4000W line interactive 6U rack/tower UPS; Sine wave output
- 208 and 120V output during brownouts to 151V and overvoltages to 260V
- USB, Serial, EPO and slot for Network Management Card options
- Expandable runtime; 8 single-outlet switched output load banks
- NEMA L6-30P input; 10 5-15R, 2 5-15/20R, 1 L6-30R and 1 L14-30R outlets

Package Includes

- SMART5000RT3U UPS System
- BP48V60RT3U battery pack
- USB & DB9 Serial cabling
- Mounting hardware
- Instruction manual

Description

The line-interactive SMART5000RT3U UPS System protects server, networking or telecommunications equipment from blackouts, voltage fluctuations and surges in a compact tower/rack-mount housing. In rack configuration, the power module and battery pack occupy only 3U each. Large-capacity 5000VA/4000W power module converts raw 208V AC input to fully regulated dual-output 208/120 voltage for simultaneous protection of both high- and low-voltage equipment loads. True sine wave output at all times offers guaranteed compatibility with all equipment types. Includes 14 outlets, eight of which can be individually reset via software interface to selectively reboot remote equipment or shed less critical loads to extend battery runtime for more critical equipment. Battery support can be extended indefinitely with additional external 3U rack-mount battery packs. Includes slot for internal Network Management Card option. Also includes two DB9 and two USB enhanced monitoring ports for unattended shutdown, remote control and monitoring of UPS system and power data.

Features

- Large 5000VA/4000W output capacity with full-time sine wave output offers guaranteed compatibility with all equipment types
- High power density 5kVA power module and battery pack occupy only 3 rack spaces (3U) each (UPS and battery pack require 6U total installed)
- 38 min. half load runtime, expandable with multiple external battery packs BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack compatible) and BP48V27-2US (multi-pack compatible)
- Line-interactive voltage regulation corrects severe brownouts and overvoltages without using battery power
- Dual voltage output is simultaneously compatible with both 208V and 120V equipment
- 14 total outlets (120V: 10 x 5-15R, 2 x 5-20R/208V: 1 x L6-30R, 1 x L14-30R)
- Diagnostic LEDs provide visual indication of 17 separate performance conditions
- USB & Serial ports enable data-saving unattended shutdown when used with PowerAlert software, available via FREE download from tripplite.eaton.com/products/power-alert
- 4 built-in communications ports (2 x DB9, 2 x USB) for remote monitoring and unattended shutdown
- Compatible with UPS management card options WEBCARDLX and SNMPWEBCARD
- 8 customized load management receptacles can be individually powered off and back on again via software interface to reboot remote equipment or perform "load shedding" of less critical loads to extend battery runtime for the most critical equipment

- Emergency Power Off (EPO) interface for emergency shutoff in large facilities
- Hot-swappable/user replaceable external battery pack(s) allow on-site battery replacement without powering off connected equipment or removing the UPS from the rack
- Intelligent battery management system extends battery life
- Included UPS external battery pack ships fully assembled and ready for connection to the power module, no time consuming, connection of individual internal batteries by user is necessary

Specifications

OVERVIEW	
UPC Code	037332099242
UPS Type	Line-Interactive
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	24A max. in factory L6-30P configuration; 27A max. when powered by 50A plug or hardwire input
Nominal Input Voltage(s) Supported	208V AC
UPS Input Connection Type	L6-30P
Input Circuit Breakers	30A double-pole
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	30A 208V
Maximum Input Amps	24
OUTPUT	
Output Capacity (VA)	5000
Output Capacity (kVA)	5
Output Capacity (Watts)	4000
Output Capacity (kW)	4
Output Capacity Details	Maximum output increases to 4800W when hardwire or user-supplied 50A rated input plug is used
Power Factor	0.8
Nominal Voltage Details	208/120V nominal output in battery mode
Frequency Compatibility	60 Hz
Output Voltage Regulation (Line Mode)	208 & 120V (-10% / +10%)
Output Voltage Regulation (Battery Mode)	+/- 5%
Load Management Receptacles	Eight switchable single-outlet 5-15R load banks
Output Circuit Breakers	15A branch rated (x3) - 2 breakers support 5 5-15R outlets each, one breaker supports 2 5-20R outlets, L6-30R and L14-30R outlets are unbreakered

Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	110V; 115V; 120V; 208V
Output Receptacles	(10) 5-15R; (2) 5-15/20R; (1) L14-30R; (1) L6-30R
Individually Controllable Load Banks	Yes
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	16 min. (4000W)
Runtime Half Load (min.)	38 min. (2000W)
Expandable Runtime	Yes
External Battery Pack Compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible); BP48V27-2US (multi-pack compatible)
DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	Less than 4 hours from 10% to 90% (typical, full load discharge)
Battery Replacement Description	Hot-swappable, user replaceable batteries
VOLTAGE REGULATION	
Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 151 to 260
Overvoltage Correction	Input voltages between 240V and 260 are reduced by 12%
Undervoltage Correction	Input voltages between 180V and 199 are boosted by 12%
Severe Undervoltage Correction	Input voltages between 151V and 179 are boosted by 24%
USER INTERFACE, ALERTS & CONTROLS	
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Audible Alarm	Audible alarm indicates power-failure, overload and low-battery conditions
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
SURGE / NOISE SUPPRESSION	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	1020
AC Suppression Response Time	Instantaneous
PHYSICAL	
Primary Form Factor	Rackmount

Rack Height	6U
Cooling Method	Fans
Included Battery Pack Dimensions (hwd / in.)	5.2 x 17.5 x 25
Included Battery Pack Weight (lbs.)	163
Included Battery Pack Weight (kg)	73.94
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITHD); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND)
Minimum Required Rack Depth (cm)	7.62
Minimum Required Rack Depth (inches)	3
Minimum Required Rack Depth with External Battery Pack (cm)	75
Minimum Required Rack Depth with External Battery Pack (in.)	29.5
Minimum Required Rack Depth without External Battery Pack (cm)	72
Minimum Required Rack Depth without External Battery Pack (in.)	28.25
Optional Mounting Accessory Notes	Optional 2-9USTAND enables upright tower UPS placement (1 required); 2POSTRMKITHD enables 2-post rackmount installation (2 required); 4POSTRAILKITWM enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm, requires 2)
Primary UPS Depth (mm)	572
Primary UPS Height (mm)	132
Primary UPS Width (mm)	445
Shipping Dimensions (hwd / in.)	24.50 x 24.00 x 34.00
Shipping Dimensions (hwd / cm)	62.23 x 60.96 x 86.36
Shipping Weight (lbs.)	321.62
Shipping Weight (kg)	145.88
Unit Dimension Details	Includes 3U UPS/power module and 3U external battery pack
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	13.21 x 44.45 x 57.15
UPS Power Module Dimensions (hwd, in.)	5.2 x 17.5 x 22.5
UPS Power Module Weight (kg)	42.18
UPS Power Module Weight (lbs.)	93

Unit Weight (lbs.)	321.62
Unit Weight (kg)	145.88
Mounting Details	Set of two included 4POSTRAILKIT mounting brackets enables installation of UPS and Battery Pack in 4 post racks from 20.5 to 36 inches (521 to 914mm)
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	0-95% non-condensing
AC Mode Efficiency Rating (100% Load)	94%
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	1518
Audible Noise	45 dBA maximum, front side 1m
COMMUNICATIONS	
Network Management Cards	WEBCARDLXE
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions; 2 USB ports, 1 DB9 serial and 1 DB9 contact closure port (4 total)
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
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network Management Card Description	Network management card optional
Communications Interface	Contact closure; DB9 Serial; USB
LINE / BATTERY TRANSFER	
Transfer Time	2-4 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	151
High Voltage Transfer to Battery Power (Setpoint)	260
FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic Voltage Regulation (AVR); Hot swappable batteries; Surge/noise protection
Grounding Details	Back panel grounding lug
APPLICATIONS	
UPS Applications	Large Network

STANDARDS & COMPLIANCE	
Product Certifications	CSA (Canada); NOM (Mexico); UL 1778
Product Compliance	RoHS; FCC Part 15 Class A (USA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year warranty, 3 year with registration. Note: Registration is required for 3-year warranty.
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$250,000 Ultimate Lifetime Insurance

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