SmartPro 120V 3kVA 2.88kW Line-Interactive Sine Wave UPS, 4U Short Depth, Extended Run, Network Card Options, USB, DB9

MODEL NUMBER: **SMART3000CRMXL**

Description

Tripp Lites SmartPro Compact Rackmount Uninterruptible Power Supply (UPS) offers line interactive voltage regulation, network grade surge suppression and long lasting battery support for critical network hardware during blackouts and extended power failures. Special reduced-depth housing, larger internal batteries, higher rated wattage and included 2 post rackmount installation hardware makes these systems ideal for network and telecom wiring closets and other limited-space installations. Runtime is expandable with optional BP48V24-2U (limit 1), BP48V48RT4U (multi-pack compatible) and BP48V27-2US (multi-pack compatible) external battery packs.

SMART3000CRMXL 4U rackmount 3000VA UPS offers battery-derived sine wave AC output during power failures and extreme voltage variations. Supports 3000VA/2880 watts when powered via included L5-30P input plug. Supports up to 3600VA/3600 watts when hardwired to a 120V 30A input source. Line interactive Automatic Voltage Regulation (AVR) provides two levels of voltage boost during brownouts and one level of voltage cut during overvoltage conditions to maintain regulated 120V nominal output over an input range of 83-145V. Includes NEMA L5-30P input plug (or hardwire input), L5-30R and 5-15/20R output receptacles. Network management interfaces support communications via USB, RS-232 and installed Network Management Card option. HID-compliant USB interface enables full integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces at once. PowerAlert UPS monitoring software is available via free download. Emergency Power Off (EPO) interface. Integrated 3-bank programmable PDU switching supports load shedding and remote-reboot of up to 3 individual connected devices. 3-stage metered current monitoring and battery charge status LEDs. Utility power and voltage regulation LEDs. Audible alarm. Self-test. 2-post rackmount accessories included; 2-9USTAND tower stands and 4POSTRAILKIT 4 post rackmount kit available. Field-

Highlights

- 3kVA / 3000VA / 2880W line interactive 4U reduced-depth rack/tower UPS, Sine Wave
- Reduced depth housing is ideal for 2 post rackmount installations
- 97% line-mode efficiency, 3 switched load banks, 2-post mounting kit
- USB, RS232 & EPO and slot for network management card options
- 120V NEMA L5-30P or Hardwire input, 8 NEMA 5-15/20R & 1 L5-30R outlets
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

Package Includes

- SmartPro Compact 4U Rackmount UPS system
- 2 post rackmount installation brackets
- USB and Serial Cabling
- Owner's manual information

replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme.

Features

- Tripp Lite's SmartPro Compact Rackmount Uninterruptible Power Supply (UPS) offers line interactive voltage regulation, network grade surge suppression and long lasting battery support for critical network hardware during blackouts and extended power failures
- Special reduced-depth housing, larger internal batteries, higher rated wattage and included 2 post rackmount installation hardware makes these systems ideal for network and telecom wiring closets and other limited-space installations
- Runtime is expandable with optional BP48V24-2U (limit 1), BP48V48RT4U (multi-pack compatible) and BP48V27-2US (multi-pack compatible) external battery packs
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Intelligent battery management system extends battery life
- SMART3000CRMXL 4U rackmount 3000VA/2880 watt UPS offers battery-derived sine wave AC output during power failures and extreme voltage variations
- Supports loading up to 3600 watts when hardwired
- Line interactive Automatic Voltage Regulation (AVR) provides two levels of voltage boost during brownouts and one level of voltage cut during overvoltage conditions to maintain regulated 120V nominal output over an input range of 83-145V
- Includes NEMA L5-30P input plug (hardwire line cord installation supported), L5-30R and 5-15/20R output receptacles
- Network management interfaces support simultaneous communications via USB port, DB9 serial port and installed Network Management Card option
- Compatible with Tripp Lite UPS management card options WEBCARDLX, SNMPWEBCARD and RELAYIOCARD
- HID-compliant USB interface enables full integration with built-in power management and auto shutdown features of Windows and Mac OS X
- 97% efficiency in line power mode offers substantially lower operating costs than lower efficiency UPS types
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces at once
- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert
- Emergency Power Off (EPO) interface
- Integrated 3-bank programmable PDU switching supports load shedding and remote-reboot of up to 3 individual connected devices
- 3-stage metered current monitoring and battery charge status LEDs; Utility power and voltage regulation LEDs; Audible alarm; Self-test

- 2-post rackmount accessories included; 2-9USTAND tower stands and 4POSTRAILKIT 4 post

  rackmount kit available

- Field-replaceable, hot-swappable internal batteries and external battery packs

- Attractive all-black color scheme

Specifications

OVERVIEW	
UPC Code	037332142375
UPS Type	Line-Interactive

INPUT	
Rated input current (Maximum Load)	24A (L5-30P input), 30A (hardwire)
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	L5-30P; Hardwire
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	120V 30A
Voltage Compatibility (VAC)	120
Input Phase	Single-Phase

OUTPUT	
Output Volt Amp Capacity (VA)	3000
Output kVA Capacity (kVA)	3.00
Output Watt Capacity (Watts)	2880
Output kW Capacity (kW)	2.88
Power Factor	.96
Nominal Voltage Details	120v nominal output in battery mode
Frequency Compatibility	60 Hz
Output Voltage Regulation (Line Mode)	-18%, +8%
Output Voltage Regulation (Battery Mode)	+/-5%
Load Management Receptacles	Three switchable single-outlet 5-15/20R load banks
Output Circuit Breakers	20A (x2) - each 20A breaker protects 4 5-15/20R outlets / 30A breaker protects L5-30R
Output AC Waveform (Battery Mode)	Pure Sine wave

Output Capacity Details	Maximum output increases to 3600W when used with hardwire input
Nominal Output Voltage(s) Supported	110V; 115V; 120V
Output Receptacles	(8) 5-15/20R; (1) L5-30R
Individually Controllable Load Banks	Yes

BATTERY

Full Load Runtime (min.)	7.5 min. (2880w)
Half Load Runtime (min.)	19 min. (1440w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs
External Battery Pack Compatibility	BP48V24-2U (limit 1); BP48V48RT4U (multi-pack compatible); BP48V27-2US (multi-pack compatible)
DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	Less than 7.2 hours from 10% to 90% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	RBC94-2U (quantity 2)
Battery Access	Battery access door allows hot swap battery replacement without powering connected equipment off
Expandable Runtime	Yes

VOLTAGE REGULATION

Voltage Regulation Description	Automatic Voltage Regulation (AVR) circuits maintain clean, regulated computer-grade 120V nominal output, without using battery power, during brownouts to 83V and overvoltages to 145V
Overvoltage Correction	Input voltages between 127 and 145V AC are reduced by 12%
Undervoltage Correction	Input voltages between 96 and 108 are boosted by 12%
Severe Undervoltage Correction	Input voltages between 83 and 95 are boosted by 24%

USER INTERFACE, ALERTS & CONTROLS

Switches	Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions. Back panel includes battery charge level switch for internal or external battery configurations
Audible Alarm	3 function audible alarm indicates power failure conditions (4 short beeps every 10 seconds), overload (continuous short beeps) and low battery (continuous tone)
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status

SURGE / NOISE SUPPRESSION

UPS AC Suppression Joule Rating	570
EMI / RFI AC Noise Suppression	Yes
AC Suppression Response Time	Instantaneous

PHYSICAL

Cooling Method	Fan
Included Mounting Accessory Description	Included 2POSTRMKITWM mounting accessory enables 2-post rackmount installation
Installation Form Factors Supported with Included Accessories	2 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	4 post rackmount full-depth (4POSTRAILKIT); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND)
Minimum Required Rack Depth with External Battery Pack (cm)	63
Minimum Required Rack Depth with External Battery Pack (in.)	24.8
Minimum Required Rack Depth without External Battery Pack (cm)	58
Minimum Required Rack Depth without External Battery Pack (in.)	22.8
Optional Mounting Accessory Notes	Optional 2-9USTAND enables upright tower UPS placement; 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches; 4POSTRAILKITWM enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm)
Primary Form Factor	Rackmount
Primary UPS Depth (mm)	452
Primary UPS Height (mm)	175
Primary UPS Width (mm)	439
Rack Height	4U
Shipping Dimensions (hwd / cm)	33.02 x 59.69 x 57.15
Shipping Dimensions (hwd / in.)	13.00 x 23.50 x 22.50
Shipping Weight (kg)	58.29
Shipping Weight (lbs.)	128.50
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	17.50 x 43.94 x 45.21
UPS Power Module Dimensions (hwd, in.)	6.89 x 17.30 x 17.80
UPS Power Module Weight (kg)	46.27
UPS Power Module Weight (lbs.)	102

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	0-95%, non-condensing
AC Mode BTU / Hr. (Full Load)	539
Battery Mode BTU / Hr. (Full Load)	2159
Audible Noise	45 dBA maximum, front side 1m

COMMUNICATIONS

Network Management Cards	SNMPWEBCARD ; WEBCARDLX ; RELAYIOCARD
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert
WatchDog Compatibility	Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipment ideal for unattended kiosk applications
EPO Port	Includes RJ11 EPO (emergency power off) port and interconnection cable
SNMP Compatibility	Compatible with Tripp Lite UPS management card options WEBCARDLX , SNMPWEBCARD and RELAYIOCARD
Communications Interface	DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)

LINE / BATTERY TRANSFER

Transfer Time	5 ms. (typical)
Low Voltage Transfer to Battery Power (Setpoint)	83
High Voltage Transfer to Battery Power (Setpoint)	145

SPECIAL FEATURES

Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Hot swappable batteries; Auto Probe Monitoring and Reboot (requires WEBCARDLX)

STANDARDS & COMPLIANCE

UPS Certifications	Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA)

WARRANTY

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