208/240V 3000VA 2.7kW Double-Conversion UPS - 8 Outlets, Extended Run, Card Slot, LCD, USB, DB9, 2U

MODEL NUMBER: **SU3000LCD2UHV**

On-line double-conversion UPS provides pure sine wave AC output to server and network equipment in data centers and computer rooms.

Features

Double-Conversion UPS Protects Equipment against Damage, Downtime and Data Loss
This 200/208/220/230/240V 50/60 Hz UPS system maintains perfect output by converting AC input to DC, then reconverting UPS output to fully regulated sine wave AC with +/-2% voltage regulation in online and battery modes. Featuring a 2700W capacity, high 0.9 power factor, 570 joules of surge suppression, true on-line operation with pure sine wave output and zero transfer time in on-line double-conversion mode, the SmartOnline® SU3000LCD2UHV double-conversion UPS provides the highest level of AC power protection and battery backup for critical network closet, computer room and data center equipment.

Set Power Strategies to Reflect Your Protection Priorities
Pick your power strategy, from precise power for sensitive systems to the highest possible electrical efficiency, while ensuring 100% uptime. Choose from five selectable strategies: Max Efficiency, Max Quality, Frequency Regulation, Frequency Conversion and Auto Adaptive, which automatically offers increased efficiency when power conditions are good and enhanced power quality when power conditions are poor.

Individually Controllable Load Banks Let You Access and Control Outlets Remotely
Four NEMA 6-15/20R outlets are split evenly into two switchable load banks, allowing you to reboot select components or shed loads remotely. In addition to those four outlets, this UPS provides two more NEMA 6-15/20R outlets in their own unswitched bank, as well as two NEMA L6-20R outlet dongles, for powering critical components.

Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages
The field-replaceable, hot-swappable internal battery provides 13.5 minutes of support at half load (1350W) and five minutes at full load (2700W), keeping protected equipment operational through power failures. For mission-critical applications demanding scalable extended runtime, the UPS supports "smart" external battery packs, such as Tripp Lite's BP72V18-2US (sold separately). Both the internal and external batteries are automatically sensed and configured during replacement to offer accurate runtime-remaining and battery age notifications during outages. The intelligent battery management system with temperature-compensated charging extends battery life.

Automatic Bypass Maintains Utility Output During Fault Conditions

Highlights

- Offers network-grade protection against power failures and voltage fluctuations
- Zero transfer time between on-line and battery modes for uninterrupted operation
- Optional external battery packs provide additional runtime for applications requiring it
- Optional WEBCARDLX network interface required to use Auto Probe feature
- ENERGY STAR-certified to save electricity, lower costs, and protect the environment

Applications

- Deliver perfectly regulated sine wave output to mission-critical equipment
- Protect connected components from dangerous surges, spikes and line noise
- Keep equipment operational through power failures
- Allow time to save data and safely shut down components in case of a prolonged blackout

Package Includes

- SU3000LCD2UHV SmartOnline Double-Conversion UPS
- USB cable
- RS-232 cable
- EPO cable
- 4-post rack-mounting hardware
- Owner's manual

Auto-bypass mode keeps connected equipment powered and operational, even during UPS fault conditions.

ENERGY STAR-Certified to Help You Save Money and Protect the Environment
By meeting strict EPA efficiency guidelines, this ENERGY STAR-certified UPS system helps you save money and energy. A power-saving Economy mode setting option offers enhanced efficiency and reduced BTU output when utility power is already high quality.

Automatically Turns Back On After Power Is Restored
Battery-independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement.

Intuitive Front-Panel Interface for Convenient UPS Operation and Monitoring
The front-panel LCD screen reports UPS operating mode, detailed UPS status and site-power information, as well as a variety of advanced UPS setup and configuration options. LEDs indicate AC input/output, battery and fault status.

Advanced Communications Ports Allow for Automatic Saves and Shutdowns
RS-232 and HID-compliant USB ports connect to a computer running Tripp Lite's free downloadable PowerAlert® software to enable safe unattended file saves and system shutdown in case of a prolonged power failure. An EPO port connects the UPS to a contact closure switch to enable emergency inverter shutdown. Cables are included.

Optional WEBCARDLX Network Interface Offers 24/7 Access
The SU3000LCD2UHV includes a slot for an optional Java-free HTML5-based WEBCARDLX (sold separately) that enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network. Automated alerts help prevent accidental overloads, power loss and downtime. WEBCARDLX 15.5.2 or later is required to use the Auto Probe feature, which can prevent costly service calls by automatically rebooting non-responsive network devices.

Versatile Installation Options
Hardware is included for mounting the UPS system in 2U of space in an EIA-standard 19-inch 4-post rack. Use the optional 2POSTRMKITWM (sold separately) for 2-post rack mounting or the optional 2-9USTAND (sold separately) for mounting in an upright tower position. The 10-ft. (3.05 m) power cord with NEMA L6-20P plug connects to any compatible AC outlet.

Specifications

OVERVIEW	
UPC Code	037332180742
UPS Type	On-Line

INPUT	
Rated input current (Maximum Load)	14.97A
Nominal Input Voltage(s) Supported	200V AC; 208V AC; 220V AC; 230V AC; 240V AC
UPS Input Connection Type	L6-20P
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	208/240V 20A

Input Phase	Single-Phase

OUTPUT	
Output Capacity (VA)	3000
Output Capacity (kVA)	3
Output Capacity (Watts)	2700
Output Capacity (kW)	2.7
Output Capacity Details	DE-RATING INFORMATION: Max output in Frequency Conversion mode is reduced to 1890 watts for 208/220/230/240V output voltages; Max output is reduced to 2160W at 200V output voltage in all operating modes OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% for 3 minutes, 150% for 30 seconds and >150% for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits).
Power Factor	0.9
Crest Factor	3:1
Nominal Voltage Details	Nominal output voltage is user configured on first power-on
Frequency Compatibility	50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion
Frequency Compatibility Details	Output frequency matches input nominal on startup; Output capacity de-rates by 30% during frequency conversion operation
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 2%
Load Management Receptacles	Two switchable outlet load banks (2 NEMA 6-15/20R outlets per bank)
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	200V; 208V; 220V; 230V; 240V
Output Receptacles	(6) 6-15/20R; (2) L6-20R
Individually Controllable Load Banks	Yes

BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	5 min. (2700W)
Runtime Half Load (min.)	13.5 min. (1350W)
Expandable Runtime	Yes
External Battery Pack Compatibility	BP72V15-2U (limit 1); BP72V28RT-3U (multi-pack compatible); BP72V18-2US (multi-pack compatible)

DC System Voltage (VDC)	72
Battery Recharge Rate (Included Batteries)	3.0 hours from 10% to 90% (typical, full load discharge)
Battery Access	Front panel battery access door
Internal UPS Replacement Battery Cartridge	RBC72S
Battery Replacement Description	Hot-swappable, replaceable batteries

VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	2% output voltage regulation during overvoltages to 288
Undervoltage Correction	2% output voltage regulation during undervoltages to 160V (100% load), 130V (70% load), 100V (30% load)

USER INTERFACE, ALERTS & CONTROLS	
Front Panel LCD Display	Interactive front-panel LCD interface reports UPS operating mode, detailed UPS status and site-power information; LCD interface also enables a variety of advanced UPS setup and configuration options
Switches	5 front panel switches: On/Off, Up, Down and Escape
Alarm Cancel Operation	Power-fail alarm can be silenced by following on-screen prompts
Audible Alarm	Audible alarm indicates power failure, low battery, overload and fault
LED Indicators	4 front panel LEDs: AC input (green), AC output (green), Battery (yellow), Fault (red)

SURGE / NOISE SUPPRESSION	
UPS Dataline Suppression Details	Single line dialup / network dataline protection included
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	570
AC Suppression Response Time	Instantaneous

PHYSICAL	
Primary Form Factor	Rackmount
Rack Height	2U
Cooling Method	Fan
Included Mounting Accessory Description	4 post installation accessories included
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); Tower (2-9USTAND)
Minimum Required Rack Depth (cm)	71.12
Minimum Required Rack Depth (inches)	28

Minimum Required Rack Depth with External Battery Pack (cm)	77
Minimum Required Rack Depth with External Battery Pack (in.)	30.25
Minimum Required Rack Depth without External Battery Pack (cm)	74
Minimum Required Rack Depth without External Battery Pack (in.)	29.25
Primary UPS Depth (mm)	616
Primary UPS Height (mm)	88
Primary UPS Width (mm)	438
Shipping Dimensions (hwd / in.)	9.45 x 23.62 x 29.92
Shipping Dimensions (hwd / cm)	24.00 x 59.99 x 76.00
Shipping Weight (lbs.)	86.00
Shipping Weight (kg)	39.01
UPS Housing Material	Metal
UPS Power Module Dimensions (hwd, cm)	8.79 x 43.79 x 61.60
UPS Power Module Dimensions (hwd, in.)	3.46 x 17.24 x 24.25
UPS Power Module Weight (kg)	32.12
UPS Power Module Weight (lbs.)	70.81
Unit Weight (lbs.)	70.8100
Unit Weight (kg)	32.12

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	5 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	933
AC Economy Mode BTU / Hr. (Full Load)	588
Battery Mode BTU / Hr. (Full Load)	1399
AC Mode Efficiency Rating (100% Load)	>90%
AC Economy Mode Efficiency Rating (100% Load)	>95%
Audible Noise	<50dB at front side 1M
Operating Elevation (m)	Up to 3000m

COMMUNICATIONS	

Network Management Cards	SNMPWEBCARD; WEBCARDLX
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 plus assignable contact closure pin functions for On-battery, On bypass, Output-on and Low-battery conditions and remote Shutdown, Output-off, Reboot and Power-toggle operations
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at https://www.tripplite.com/poweralert
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; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)

LINE / BATTERY TRANSFER

Transfer Time	No transfer time (0 ms.) in online, double-conversion mode; 4 ms. transfer time during economy mode operation
Low Voltage Transfer to Battery Power (Setpoint)	160V (100% load), 140V (66% load), 120V (33% load)
High Voltage Transfer to Battery Power (Setpoint)	288V

FEATURES & SPECIFICATIONS

Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring and Reboot (requires WEBCARDLX); Automatic inverter bypass; Hot swappable batteries; Remote management; Surge/noise protection; Zero transfer time
Green Energy-Saving Features	High efficiency economy mode operation; Individually controllable load banks
Grounding Lug	Back panel grounding lug included

STANDARDS & COMPLIANCE

Product Certifications	CSA (Canada); NOM (Mexico); UL 1778
Product Compliance	RoHS; CE (Europe); ENERGY STAR Qualified; FCC Part 15 Class A (USA)

WARRANTY & SUPPORT

Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$250,000 Ultimate Lifetime Insurance