

## SmartOnline 208/240V 3kVA 2.7kW Double-Conversion UPS, 2U, Extended Run, Network Card Slot, LCD, USB, DB9, ENERGY STAR

MODEL NUMBER: **SU3000LCD2UHV**



### Description

The SU3000LCD2UHV SmartOnline® 3000VA/2700W On-Line Double-Conversion UPS converts AC input to DC power, and then converts DC to fully regulated sine wave AC output with +/-2% voltage regulation in online and battery modes. An interactive front-panel LCD interface provides detailed real-time UPS status and advanced setup and configuration options.

In case of AC power outage, the internal batteries support 13.5 minutes of runtime at half load and five minutes at full load. Extended runtime is possible with optional external battery packs. "Smart" battery packs, such as Tripp Lite's [BP72V18-2US](#), are automatically sensed and configured during replacement. An intelligent battery management system extends battery life.

Managing the UPS is simplified through the interactive front-panel LCD interface, which displays operating conditions and diagnostic data, such as load and battery levels. You can set power strategies to reflect your protection priorities, whether it's precise power quality for sensitive systems or the highest possible electrical efficiency, all while ensuring 100% uptime for your systems. This UPS is ENERGY STAR qualified to save you money, save energy and protect the environment by meeting strict efficiency guidelines set by the U.S. Environmental Protection Agency.

This UPS offers eight receptacles—six NEMA 6-15/20R and two NEMA L6-20R—in two switched load banks. Power is filtered to protect connected equipment against surges and EMI/RFI line noise that can damage equipment or destroy data. Adding an optional Tripp Lite network management accessory card permits remote control and management.

### Features

### Highlights

- Zero transfer time suitable for advanced network applications
- 2% output voltage regulation in online and battery modes
- Selectable 200/208/220/230/240V output voltage
- 6 NEMA 6-15/20R and 2 NEMA L6-20R outlets
- Meets strict ENERGY STAR efficiency guidelines

### Package Includes

- SU3000LCD2UHV SmartOnline 3000VA/2700W On-Line Double-Conversion UPS
- 4-post rack-mount installation kit
- USB cable
- RS-232 cable
- Owner's manual



#### Protects Mission-Critical Rack-Mounted Equipment

- Converts AC input to DC power, then DC to fully regulated sine wave AC output
- +/-2% voltage regulation in online and battery modes
- Selectable 200/208/220/230/240V output voltage
- 3000VA/2700W capacity
- 6 NEMA 6-15/20R and 2 NEMA L6-20R outlets
- 570-joule surge suppression rating

#### Interactive Front-Panel LCD

- Reports detailed status information, including load and battery levels
- Offers advanced configuration options, including output voltage and power strategies

#### 5 Power Strategies

- Auto Adaptive enables high efficiency and high-quality operation as necessary for ideal equipment protection
- Max Efficiency favors economy operation with high 95% efficiency
- Max Quality favors on-line, double-conversion mode, maintaining +/-2% output voltage regulation and zero transfer time
- Frequency Regulation and Frequency Conversion enable +/-0.05 Hz output regulation for selected frequency (50/60 Hz)

#### Reliable, Expandable Battery Backup

- Supports half load (1350W) for 13.5 min. and full load (2700W) for 5 min.
- Add external battery packs for extra runtime
- "Smart" battery packs, such as Tripp Lite's [BP72V18-2US](#), are automatically sensed and configured during replacement
- Full 2700W capacity available with and without external battery packs
- Battery independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries

#### Electronic Bypass

- Maintains utility output during UPS fault conditions
- Adjustable bypass range and high-efficiency mode voltage settings

#### Highly Customizable

- Customize communications and behavior to integrate with device makers' specific needs
- Selectable auto-restart from 0 to 60 sec. after AC power is restored
- Selectable minimum battery charge level before auto-restart
- Schedule system reboot if USB signal from connected device is lost



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Chicago, IL 60609 USA  
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- Set overload thresholds and low battery levels for alert and shutdown
- Remote on/off (toggle) support via [DB9](#)

#### ENERGY STAR Certification

- Saves you money, saves energy and protects the environment by meeting strict EPA efficiency guidelines

#### Optional Network Management Cards

- Compatible Tripp Lite UPS management cards [WEBCARDLX](#) and [SNMPWEBCARD](#) support a wide variety of UPS control and monitoring capabilities

## Specifications

MODEL TEXT	
Key Benefit	High-performance on-line double-conversion UPS with interactive LCD interface ideal for any critical voice, data, medical or industrial IT application. Converts AC input to DC and then to fully regulated sine wave AC power.
OUTPUT	
Output Volt Amp Capacity (VA)	3000
Output kVA Capacity (kVA)	3
Output Watt Capacity (Watts)	2700
Output kW 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 Output Voltage(s) Supported	200V; 208V; 220V; 230V; 240V
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%



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Output Voltage Regulation (Battery Mode)	+/- 2%
Output Receptacles	(6) 6-15/20R; (2) L6-20R
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
<b>INPUT</b>	
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.)	6
UPS Input Cord Length (m)	1.8
Recommended Electrical Service	208/240V 20A
Input Phase	Single-Phase
<b>BATTERY</b>	
Full Load Runtime (min.)	5 min. (2700w)
Half Load Runtime (min.)	13.5 min. (1350w)
Expandable Battery Runtime	Supports extended runtime with optional external battery packs
External Battery Pack Compatibility	<u>BP72V15-2U</u> (limit 1); <u>BP72V28RT-3U</u> (multi-pack compatible); <u>BP72V18-2US</u> (multi-pack compatible)
DC System Voltage (VDC)	72
Battery Recharge Rate (Included Batteries)	3.0 hours from 10% to 90% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	<u>RBC72S</u>
Battery Access	Front panel battery access door
Battery Replacement Description	Hot-swappable, replaceable batteries
Expandable Runtime	Yes
<b>VOLTAGE REGULATION</b>	
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)
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	



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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)
<b>SURGE / NOISE SUPPRESSION</b>	
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
<b>PHYSICAL</b>	
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 ( <u>2POSTRMKITWM</u> ); Tower ( <u>2-9USTAND</u> )
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	3.46 x 17.24 x 24.25
UPS Power Module Dimensions (hwd, cm)	8.79 x 43.79 x 61.60
Rack Height (U Spaces)	2
Minimum Required Rack Depth (inches)	35.3
Minimum Required Rack Depth (cm)	89.66
UPS Power Module Weight (lbs.)	70.81
UPS Power Module Weight (kg)	32.12
UPS Shipping Dimensions (hwd / in.)	9.45 x 23.62 x 29.92
UPS Shipping Dimensions (hwd / cm)	24.00 x 59.99 x 76.00
Shipping Weight (lbs.)	86.02
Shipping Weight (kg)	39.1
Cooling Method	Fan
UPS Housing Material	Metal



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Minimum Required Rack Depth (mm)	897
Primary UPS Height (mm)	88
Primary UPS Width (mm)	438
Primary UPS Depth (mm)	616
Shipping Height (mm)	240
Shipping Width (mm)	600
Shipping Depth (mm)	760
<b>ENVIRONMENTAL</b>	
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	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
<b>COMMUNICATIONS</b>	
Communications Interface	USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network Management Cards	SNMPWEBCARD; WEBCARDLX
Network Monitoring Port Description	This model works with optional SNMPWEBCARD SNMP/Web interface; 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 <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a>
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
<b>LINE / BATTERY TRANSFER</b>	
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



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SPECIAL FEATURES	
Grounding Lug	Back panel grounding lug included
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 Energy-Saving Features	High efficiency economy mode operation; Individually controllable load banks
CERTIFICATIONS	
UPS Certifications	ENERGY STAR Qualified; Meets FCC Part 15 Category A (EMI); Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA)
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <u>Ultimate Lifetime Insurance</u>

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9