

OmniSmart 1000VA Tower Line-Interactive 120V UPS with built-in Isolation Transformer and USB port

MODEL NUMBER: **OMNI1000ISO**



Highlights

- 1000VA / 1kVA tower 120V line interactive UPS with isolation transformer
- Corrects brownouts and overvoltages from 81V to 143V
- USB port, Normal & common mode EMI/RFI line noise immunity
- NEMA 5-15P input plug and 6 5-15R outlets

Package Includes

- OMNI1000ISO UPS System
- USB cable
- Instruction manual

Description

Tripp Lite's OMNI1000ISO offers complete UPS protection with built-in line-interactive voltage regulation, intelligent monitoring and unattended shutdown capability. Built-in isolation transformer with Faraday shield offers full isolation and complete common mode noise rejection. 1000VA power-handling capacity supports point-of-sale applications, computers, internetworking equipment and home theater systems during commercial power failures. Line-interactive voltage regulation corrects brownouts as low as 81V and overvoltages as high as 143V back to normal 120V levels, reserving battery power for use during complete power failures. Built-in USB communications port works with PowerAlert Software and cabling to provide automatic unattended shutdown of connected network and PC applications.

Features

- 1000VA line-interactive UPS with Faraday-shielded, low-impedance isolation transformer delivers full isolation from potential damage and performance problems
- Provides immunity from EMI/RFI line noise in both normal and common modes. Delivers clean signal-reference ground, reducing data errors and audio/video distortion
- Automatic voltage regulation (AVR) automatically corrects incoming voltage to keep equipment working through low voltage (brownouts) as low as 81V and overvoltages as high as 143V without consuming battery power
- Supports loads up to 1000VA/700W
- Half-load runtime of 24 min. (500VA/350W); full load runtime of 8 min. (1000VA/700W)
- 5 diagnostic LEDs indicate AC present, on battery, voltage correction status, overload and battery low/replace
- Electrostatic discharge (ESD) resistance reduces potential static damage to connected electronics
- Built-in USB port and PowerAlert Software (free via web download) provide safe, unattended system shutdown during extended blackouts
- Built-in surge suppression (backed by \$200,000 Ultimate Lifetime Insurance) safeguards connected equipment against damage
- SURGE VOLTAGE WITHSTAND CAPABILITY: ANSI/IEEE C62.41 Categories A & B 6KV/200/500 amp 100KHz Ringwave and category B BiWave
- SURGE VOLTAGE ATTENUATION: N-G 2000:1, L-G 240:1, L-N 100:1
- INSERTION LOSS: 65 db N-G from 10KHz to 100KHz, 45 to 60 db L-G from 10KHz to 100KHz, 18 to 54 db L-N from 50KHz to 500 KHz
- 6 UPS-supported AC outlets; 6-ft. cord



Tripp Lite
1111 W. 35th Street
Chicago, IL 60609 USA
Telephone: 773.869.1234
www.tripplite.com

- Optional PDUB15 bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	1000
Output kVA capacity (kVA)	1
Output Watt Capacity (watts)	700
Output power factor	0.7
Nominal Output Voltage(s) Supported	115V; 120V
Frequency compatibility	60 Hz
Output voltage regulation (line mode)	-18%, +8%
Output voltage regulation (Battery mode)	115V (+/- 5%)
Built-in UPS output receptacles	6 5-15R outlet(s)
Hot-Swap PDU options	PDUB15 (2U / 8 5-15R outlets)
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	PWM sine wave
INPUT	
Rated input current (at maximum load)	7.6A
Nominal Input Voltage(s) Supported	120V AC
UPS input connection type	5-15P
UPS Input cord length (ft.)	6
UPS Input cord length (m)	1.8
Recommended Electrical Service	15A 120V
Phase	Single-Phase
BATTERY	
Full load runtime (minutes)	8 min. (700w)
Half load runtime (minutes)	24 min. (350w)
DC system voltage (VDC)	36
Battery recharge rate (included batteries)	Less than 4.5 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC53



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Battery Access	Battery access door
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 85 to 143
Overvoltage correction	Input voltages between 128 and 143V are reduced by 9%
Undervoltage correction	Input voltages between 96 and 107V are boosted by 10%
Severe undervoltage correction	Input voltages between 85 and 95V are boosted by 20%
LEDS ALARMS & SWITCHES	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Alarms	Audible alarm indicates power-failure and low-battery conditions
Alarm cancel operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
SURGE / NOISE SUPPRESSION	
UPS AC suppression joule rating	510
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
ISOLATION	
Output isolation transformer	Professional grade load isolation transformer
Surge voltage withstand capability	ANSI/IEEE C62.41 Categories A & B 6KV/200/500 amp 100Khz Ringwave and category B BiWave
Surge voltage attenuation	N-G 2000:1, L-G 240:1, L-N 100:1
Insertion loss	65 db N-G from 10Khz to 100Khz, 45 to 60 db L-G from 10Khz to 100Khz, 18 to 54 db L-N from 50Khz to 500 Khz
PHYSICAL	
Installation form factors supported with included accessories	Tower
Installation form factors supported with optional accessories	Wallmount (UPSWM - tower mounting kit)
Primary form factor	Tower
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	12.8 x 7.5 x 9.2
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	32.4 x 19 x 23.5
UPS / Power Module weight (lbs)	36.4



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UPS / Power Module weight (kg)	16.5
UPS Shipping dimensions (height x width x depth / inches)	18.2 x 13.8 x 12
UPS Shipping dimensions (height x width x depth / cm)	46.4 x 34.9 x 30.5
Shipping weight (lbs)	40
Shipping weight (kg)	18.2
Cooling method	Fan
UPS housing material	PVC
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 to 95%, non-condensing
AC mode BTU / hr. (full load)	235.4
Battery mode BTU / hr. (full load)	324.5
AC mode efficiency rating (100% load)	91%
COMMUNICATIONS	
Communications interface	USB
PowerAlert software	Free download from www.tripplite.com
Communications cable	USB cable included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
LINE / BATTERY TRANSFER	
Transfer time	2-4 milliseconds
Low voltage transfer to battery power (setpoint)	81
High voltage transfer to battery power (setpoint)	143
SPECIAL FEATURES	
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
High availability UPS features	Hot swappable batteries
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)



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WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$200,000 Ultimate Lifetime Insurance

Related Items

Optional Products

Model Number	Description	Qty.
WEXT3-OMNI	3-Year Extended Warranty - For OmniSmart, OmniPro, OmniVS	1
WEXT5-OMNI	5-Year Extended Warranty - For OmniSmart, OmniPro, OmniVS	1
PDUB15	Single-Phase Hot-Swap PDU, 1.4kW 15A 120V, 2U Horizontal Rackmount, 8 NEMA 5-15R outlets, set of 2 NEMA 5-15P input plugs	1
UPSWM	Wallmount Bracket and installation accessories (4 washers, 4 screws, 1 Velcro safety strap)	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at:

<http://www.tripplite.com/sku/OMNI1000ISO>.

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Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com