

# Model #: OMNI500ISO

# OmniSmart UPS with built-in isolation transformer - Provides battery support during blackouts, voltage regulation during brownouts and continuous line filtering with built-in isolation transformer



#### **Highlights**

500VA line-interactive UPS with built-in isolation transformer Maintains 120V nominal output over an input range of 81 to 143V Built-in USB communications port Input: NEMA 5-15P (120V 15A) / Output: 3 NEMA 5-15R (120V) 2 year product warranty

### Description

Tripp Lite's OMNI500ISO 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. 500VA 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 83V back to normal 120V levels, saving battery reserves for use only 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.

Applications

Ideal for providing a continuous clean grounding reference, voltage regulation and backup power for sensitive POS, networking and home theater applications

Package Includes

OMNI500ISO UPS system USB cable Owner's manual with warranty information

#### **Features**

500VA 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 83V, without draining battery power

Supports loads up to 500VA/300W

5 min. full-load runtime (300W); 14 min. half load runtime (150W)

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. 3 protected outlets; 6-ft. cord 4 diagnostic LEDs indicate AC present, on battery, overload and battery low/replace 2-year product warranty

## **Specifications**

Variage compatibility    200V      Frequency compatibility    60Hz      Output VA    500      Output VA    500      Output varias    300      Output varias    300      Output varias    120V (line mode) / 115V (battery mode)      Output rounnial    120V (line mode) / 115V (battery mode)      Output rounnial    120V (line mode) / 115V (battery mode)      Output rounnial    120V (line mode) / 115V (battery mode)      Output rounnial    120V (line mode) / 115V (battery mode)      Output rounnial    120V (line mode) / 115V (battery mode)      Output rounnial    120V (line mode) / 115V (battery mode)      Output rounnial    120V (line mode) / 115V (battery mode)      Output rounnial    120V (line mode) / 115V (battery mode)      Output rounnial    120V (line mode) / 115V (battery mode)      Input cond length    6 fL / 18m      Recommended    6 fL / 18m      Recommended    6 fL / 18m      Battery recharge rat    2 hours to 80%      Casystem voltage    120V coc      Voltage computation    Soffin Con      Voltage regulation <th></th> <th></th>		
Frequency compatibility    60Hz      OUTPUT    500      Output watts    300      Output watts    300      Output watts    300      Output watts    120V (line mode) / 115V (battery mode)      Output voitage    LINE MODE: Sine wave line voitage 120V (-18% / +8%) / BATTERY MODE: 115V (+/.5%)      Output frequency    LINE MODE: Passes line frequency of 60Hz. +/-10%      Output frequency    3 NEMA 5-15R      NEWT    3 NEMA 5-15R      NEWT    4.8A at 120V      amps    4.8A at 120V      amps    6 ft. / 1.8m      Recornented    5 min. (300W)      Half coal runtime    5 min. (300W)      Battery recharge ret    2.4 hours to 90%      Reparement    8EC51      Battery recharge ret    2.4 hours to 90%      Reparement    8EC51      Battery recharge ret    2.4 hours to 90%      Reparement    Sunicludes 4 front-panel status indicator LEDs for line power, batt	SYSTEM OVERVIEW	
compatibility    Implementation      OUTPUT    500      Output Watts    500      Output varias    300      Output vortage    120V (line mode) / 115V (battery mode)      Output vortage    120V (line mode) / 115V (battery mode)      Output vortage    30EMA 6-15R      Output vortage    3 NEMA 6-15R      NEUT    Maximum input      Maximum input    4.8A at 120V      Maximum input    6.6.7.1.8.      Add 1 20V    Sim Add 1 20V      Sing Sim Add 1 20V    Sim Add 1 20V      Input conf length    6.1.8.      Recompanded    6.6.7.1.8.      Recommended    5.1.9. right-angle plug      Sin (300W)    Sim (300W)      Add 1 20V    Sim (300W)      Battery recharge rate    6.4.9.a.s typical      Full bad runtime    1.5.1.0.0.      Sin (300W)    Sim (300W)      Battery recharge rate    6.4.9.a.s typical      Battery recharge rate    6.4.9.a.s typical      Sittery cartifysic and place between 83 and 107V AC are boosted by 14%      CortAREQUERE    Impr	Voltage compatibility	120V
Output V    S00      Output watts    S00      Output watts    S00      Output nominal    120V (line mode) / 115V (battery mode)      Output frequency    LINE MODE: Sine wave line voltage 120V (-18% / +8%) / BATTERY MODE: 115V (+/-5%)      Output frequency    LINE MODE: Passes line frequency of 60Hz. +/-10%.      Output trequency    INEM A5-15R      INPUT    Maximum input amps      AsA at 120V    Input connection      NEMA 5-15P, right-angle plug type    NEMA 5-15P, right-angle plug type      Input connection    NEMA 5-15P, right-angle plug type      Recommended is 6 ft. / 1.8m    Recommended is 120V      Battery    5 min. (300W)      Half load runtime    5 min. (300W)      Half load runtime    5 min. (300W)      Battery recharge rate    2-4 hours to 90%      Replacement    REC51      Output to rout correction    Input onset as angle boost level of brownout correction to maintain usable, computer grade output.      Voltage regulation    Input-Interactive UPS offers a single boost level of brownout correction to maintain usable, computer grade output.      Voltage regulation    Input-Interactive UPS offers a single boost level of brownout	Frequency compatibility	60Hz
Output watts    300      Output nominal voitage    120V (line mode) / 115V (battery mode)      Output voitage    LINE MODE: Sine wave line voitage 120V (18% / 48%) / BATTERY MODE: 115V (+/-5%)      Output troquency    LINE MODE: Passes line frequency of 60Hz. +/-10%      Output troquency    3 NEMA 5-15R      INPUT    3 NEMA 5-15R, nght-angle plug      Input connection type    6 fl. / 1.8m      Recommended    15A 120V      BATTERY    5 min. (300W)      Battery recharge rate    12VDC      Typical battery    12VDC      Statisty output over the statisty output to statisty out	OUTPUT	
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regulation    INPECTION      Output frequency regulation    1 NEM A 5-15R      INPUT    4.8A at 120V      Maximum input ampa    4.8A at 120V      Input connection    NEMA 5-15P, right-angle plug      Input cond length    6 ft. / 1.8m      Recommended electrical service    15A 120V      State Service    5 min. (300W)      Half load runtime    5 min. (300W)      Rater    5 min. (300W)      Coll service    12VDC      Typical battery iffespan    6 evans typical      Recommended electrical service    5 min. (300W)      Batter Verture    5 min. (300W)      Coll service    2 VDC      Typical battery iffespan    2 Nors to 90%      Batter Verture    2 A hours to 90%      Reguence methage    2 Service Service      VOLTAGE REGULAT    VD offers a single boost level of brownout correction to maintain usable, computer grade output.      Rester graduation    Inel-Interactive UPS offers a single boost level of brownout correction to maintain usable, computer grade output.      Rester graduation    Invelotages between 83 and 107V AC are boosted by 14%      LEDS ALARMS 8 SUFF <td>Output nominal voltage</td> <td>120V (line mode) / 115V (battery mode)</td>	Output nominal voltage	120V (line mode) / 115V (battery mode)
regulation  3 NEMA 5-15R    INPUT	Output voltage regulation	LINE MODE: Sine wave line voltage 120V (-18% / +8%) / BATTERY MODE: 115V (+/-5%)
INPUT      Maximum input amps    4.8 at 120V      Maximum input amps    4.8 at 120V      Input connection iput connection    NEMA 5-15P, right-angle plug      Input connection    6 ft. / 1.8m      Recommended electrical service    15A 120V      BATTERY    5 min. (300W)      Half load runtime    5 min. (300W)      DC system voltage    12VDC      Typical battery    4-6 years typical      Battery recharge rate    2-4 hours to 90%      Replacement Battery Cartridge    REC51      VOLTAGE REGULATIVE    Voltage regulation      Line-interactive UPS offers a single boost level of brownout correction to maintain usable, computer grade output.      description    Iput voltages between 83 and 107V AC are boosted by 14%      LEDS ALARMS & SWTEES    Yes, includes 4 front-panel status indicator LEDs for line power, battery power, voltage regulation and battery low/replace status      Alarms    Audible alarm indicates power failure conditions, silenceable via alarm cancel switch. Once cancelled, alarm will resume when approximately 2 minutes of battery operation remain (assuming full load).	Output frequency regulation	LINE MODE: Passes line frequency of 60Hz. +/-10%
Maximum input amps    4.8.A at 120V      Input connection type    NEMA 5-15P, right-angle plug      Input cord length    6 ft. / 1.8m      Recommended dectrical service    15A 120V      BATTERY    Full load runtime      Full load runtime    5 min. (300W)      Half load runtime    1 min. (150W)      DC system voltage    12VDC      Typical battery Iffespan    4-6 years typical      Battery recharge rate    2-4 hours to 90%      Reglacement Battery cartridge    REC51      VOLTAGE REGULATION    VOLTAGE REGULATION      Voltage regulation description    Line-Interactive UPS offers a single boost level of brownout correction to maintain usable, computer grade output.      LEDS ALARMS & SWITCHS    Yes, includes 4 front-panel status indicator LEDs for line power, voltage regulation and battery when approximately 2 minutes of battery operation remain (assuming full load).      Switches    Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions	Outlet quantity / type	3 NEMA 5-15R
amps    Memory and a set of the set of t	INPUT	
type    the term      Input cord length    6 ft. / 1.8m      Recommended electrical service    15A 120V      BATTERY    Fmin. (300W)      Half load runtime    5 min. (300W)      Poil load runtime    5 min. (300W)      DC system voltage    12VDC      Typical battery lifespan    2.4 hours to 90%      Battery cartridge    2.4 hours to 90%      Replacement Battery Cartridge    ReC51      VOLTAGE REGULATORY    Ine-interactive UPS offers a single boost level of brownout correction to maintain usable, computer grade output.      Costage regulation description    Input voltages between 83 and 107V AC are boosted by 14%      LEDS ALARMS & SWUTE    Yes, includes 4 front-panel status indicator LEDs for line power, battery power, voltage regulation and battery low/replace status      Alarms    Audible alarm indicates power failure conditions, silenceable via alarm cancel switch. Once cancelled, alarm will resume when approximately 2 minutes of battery operation remain (assuming full load).      Switches    Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions	Maximum input amps	4.8A at 120V
Recommended electrical service  15A 120V    BATTERY  5 min. (300W)    Half load runtime  5 min. (300W)    Half load runtime  11 min. (150W)    DC system voltage  12VDC    Typical battery  4-6 years typical    Battery recharge rate  2-4 hours to 90%    Replacement Battery cartridge  RBC51    VOLTAGE REGULATION  Voltage regulation    Line-interactive UPS offers a single boost level of brownout correction to maintain usable, computer grade output.    Brownout correction  Input voltages between 83 and 107V AC are boosted by 14%    LEDS ALARMS & SWTCHES  Yes, includes 4 front-panel status indicator LEDs for line power, battery power, voltage regulation and battery low/replace status    Alarms  Audible alarm indicates power failure conditions, silenceable via alarm cancel switch. Once cancelled, alarm will resume when approximately 2 minutes of battery operation remain (assuming full load).    Switches  Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions	Input connection type	NEMA 5-15P, right-angle plug
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	Alarms	Audible alarm indicates power failure conditions, silenceable via alarm cancel switch. Once cancelled, alarm will resume when approximately 2 minutes of battery operation remain (assuming full load).
SURGE / NOISE SUPPRESSION	Switches	Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions
	SURGE / NOISE SUPP	RESSION

AC surge suppression	SURGE VOLTAGE WITHSTAND CAPABILITY: ANSI/IEEE C62.41 Catagories 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	
AC suppression response time	Instantaneous	
EMI / RFI AC noise suppression	Yes	
PHYSICAL		
Shipping weight (lbs)	27	
Shipping weight (kg)	12.3	
Shipping Dimensions (HWD/in)	14 x 8.5 x 11	
Shipping Dimensions (HWD/cm)	35.6 x 21.6 x 27.9	
Unit weight (lbs)	21.8	
Unit weight (kg)	9.9	
Unit Dimensions (HWD/in)	10.75 x 5.25 x 7.5	
Unit Dimensions (HWD/cm)	27.3 x 13.3 x 19.1	
Material of construction	PVC	
Form factors supported	Tower	
Cooling method	Convection	
Battery Access	Via battery access door	
ENVIRONMENTAL		
Operating Temperature	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius	
Storage Temperature	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius	
Relative Humidity	0 to 95%, non-condensing	
COMMUNICATIONS		
Network monitoring port	USB	
Software and cabling included	Includes USB cable; PowerAlert software available via free download from www.tripplite.com	
LINE / BATTERY TRANSFER		
Transfer time from line power to battery mode	2-4 milliseconds	
Low voltage transfer to battery power	83V (resets to line power as voltage increases to 87V)	
High voltage transfer to battery power	147V (resets to line power as voltage decreases to 143V)	
CERTIFICATIONS		
Certifications	Tested to UL1778 (USA), CSA C22.2 No. 107.3 (Canada), Class B (Emissions)	
WARRANTY		
Product warranty	2-year product warranty	

Connected equipment insurance (USA and Canada Only	\$200,000
Optional coverage	3-year, 5-year, next-day and on-site warranty coverage available
SPECIAL FEATURES	
Cold Start	Yes, inverter can be "cold started" to enable temporary AC output during a power failure

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/products/model.cfm?txtModelID=3028.

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