

450VA 240W Line-Interactive UPS with 4 Outlets - AVR, VS Series, 120V, 50/60 Hz, Tower

MODEL NUMBER: VS450T











Line-interactive UPS provides basic battery backup with AVR protection for your office computer, home theater setup or digital signage.

Features

450VA/240W/120V Battery Backup for PCs, Home Theater or Digital Signage This 120V UPS with AVR protection provides reliable battery backup and AC power protection against blackouts, brownouts, surges and line noise that can damage valuable electronics or destroy data. The four-outlet 120V battery backup is ideal protection for your home office, media center or commerce components, including computers, routers, printers, HDTVs, Blu-ray players, game consoles, ATMs, security systems and digital signage equipment.

Allows Time to Back Up Critical Files During a BlackoutBackup support allows you to work through short power failures, and gives you enough time to safely save files and shut down your system in case of a prolonged blackout. Backup time varies according to load, but the line-interactive UPS system should keep an energy-efficient desktop computer with small LCD monitor powered as long as 17 minutes. During normal operation, incoming utility power keeps the replaceable internal battery fully charged, so backup power will always be available.

Connects Your Equipment to 4 NEMA 5-15R Outlets Three 5-15R outlets provide both battery backup and surge protection for your computer, monitor and other crucial components. The other 5-15R outlet is surge-protected only for printers, scanners and other non-essential equipment. A high 95% line mode efficiency rating reduces BTU emissions, energy consumption and, ultimately, your energy costs.

Automatic Voltage Regulation (AVR) Corrects Low-Voltage ConditionsAVR protects your equipment from incremental hardware damage, data loss and performance problems caused by brownouts. The VS450T can correct brownouts as low as 89V and overvoltages as high as 145V back to nominal 120V power without drawing on the battery backup needed to support your equipment during a blackout.

316 Joules Fight Back Against Unexpected Power SurgesA 316-joule surge suppression rating protects connected components from the harmful effects of power surges.

Combats Electromagnetic Interference That Can Harm Equipment Various electromagnetic and radio sources found in virtually every home and business can cause disruptive interference on the AC line. Known as EMI (electromagnetic interference) and RFI (radio frequency interference), this line noise is a common cause of performance problems and can lead to incremental hardware damage, data corruption and audio/video transmission problems. The VS450T incorporates technology that filters out disruptive

Highlights

- Protects valuable equipment from dangers posed by brownouts, surges and line noise
- AVR battery backup allows time to save files and safely shut down during blackouts
- 4 NEMA 5-15R outlets provide power to PC, home theater or digital signage equipment
- Alarm and front-panel LEDs report online, battery, fault and overload conditions
- High 95% efficiency with low BTU ratings saves power and lowers your energy costs

Applications

- Protect your PC and other sensitive electronics against power surges, brownouts and blackouts
- Operate essential equipment during short-term power outages using battery backup power
- Shut down PCs, DVRs, routers and other equipment without data loss during long-term power outages

Package Includes

- VS450T 450VA 240W Line-Interactive UPS with 4 Outlets
- · Owner's manual



line noise so that it won't affect your equipment.

Easy-to-Read LEDs Report Real-Time UPS and Power StatusThree front-panel LED indicators monitor essential information, such as online, battery and fault modes. An audible alarm will sound in case of low battery, excessive load and fault condition.

Tower Form Factor for Easy Placement in Your Workspace or Media CenterThe long-lasting ABS housing fits easily on a desktop, shelf or anywhere else convenient to your workstation or home theater. The five-foot power cord with NEMA 5-15P plug connects to a properly grounded AC wall outlet.

Specifications

OVERVIEW		
UPC Code	037332212887	
UPS Type	Line-Interactive	
INPUT		
Rated input current (Maximum Load)	5A	
Nominal Input Voltage(s) Supported	120V AC	
UPS Input Connection Type	5-15P	
Input Circuit Breakers	5A	
UPS Input Cord Length (ft.)	5	
UPS Input Cord Length (m)	1.5	
Recommended Electrical Service	15A 120V	
Input Phase	Single-Phase	
ОИТРИТ		
Output Capacity (VA)	450	
Output Capacity (kVA)	0.45	
Output Capacity (Watts)	240	
Output Capacity (kW)	0.24	
Output Capacity Details	3.8A @ 120V. (LINE MODE) 110%+/- 10% @ 5 minutes; (BATTERY MODE) 110% +/- 10% @ 5 seconds	
Power Factor	0.53	
Nominal Voltage Details	120V sinusoidal in line mode and 120V PWM in battery mode	
Frequency Compatibility	60 Hz	
Frequency Compatibility Details	Output is regulated to +/-0.05Hz when input frequency exceeds +/-5Hz of nominal.	
Output Voltage Regulation (Line Mode)	120V (+9%, -12%)	
Output Voltage Regulation (Battery Mode)	120V (+/- 10%)	



UPS Output Receptacides (Surge Suppression Novil Suppression Novil Novil Suppression Novil Novil Suppression Novil Suppression Novil Novil Suppression Novil			
Output AC Waveform (Battery Mode) PWM sine wave Nominal Output Voltage(s) 110V; 115V; 120V Output Receptacles (4) 5-15R Individually Controllable Load Banks No BATTERY Battery Type Valve Regulated Lead Acid (VRLA) Runtime Full Load (min.) 0.5 min. (240W) Runtime Half Load (min.) 5 min. (120W) Expandable Runtime No DC System Voltage (VDC) 12 Battery Recharge Rate (Included Batteries) 8 hours (10% to 90%) VOLTAGE REGULATION Voltage Regulation Description Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 89 to 145 Undervoltage Correction Input voltages between 89 and 108 are boosted by 15% Undervoltage Correction Input voltages between 89 and 108 are boosted by 18% USER INTERFACE, ALERTS & CONTROLS officin power status. Audible Alarm Audible alarm indicates low-battery, fault, overload and replace-battery status LED indicators 3 LEDs indicate online mode (green), battery mode (yellow) and fault mode (red) VSURGE / NOISE SUPPRESSION UPS AC Suppression Joule Rating <td>UPS Output Receptacles (Surge Suppression Only)</td> <td>3 UPS outlets, 1 surge-only outlet</td>	UPS Output Receptacles (Surge Suppression Only)	3 UPS outlets, 1 surge-only outlet	
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VOLTAGE REGULATION Voltage Regulation Description Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 89 to 145 Overvoltage Correction Input voltages between 132 and 145 are reduced by 15% Undervoltage Correction Input voltages between 89 and 108 are boosted by 18% USER INTERFACE, ALERTS & CONTROLS Switches Controls off/on power status Audible Alarm Audible alarm indicates low-battery, fault, overload and replace-battery status LED Indicators 3 LEDs indicate online mode (green), battery mode (yellow) and fault mode (red) SURGE / NOISE SUPPRESSION UPS AC Suppression Joule Rating UPS AC Suppression Response Instantaneous EMI / RFI AC Noise Suppression Yes PHYSICAL Primary Form Factor Tower Installation Form Factors Supported with Included Accessories Tower	DC System Voltage (VDC)	12	
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PHYSICAL Primary Form Factor Tower Installation Form Factors Supported with Included Accessories Tower		Instantaneous	
Primary Form Factor Tower Installation Form Factors Supported with Included Accessories Tower	EMI / RFI AC Noise Suppression	Yes	
Installation Form Factors Supported with Included Accessories Tower	PHYSICAL		
with Included Accessories	Primary Form Factor	Tower	
Primary UPS Depth (mm) 300	Installation Form Factors Supported with Included Accessories	Tower	
	Primary UPS Depth (mm)	300	



Primary UPS Height (mm)	142
Primary UPS Width (mm)	102
Shipping Dimensions (hwd / in.)	8.70 x 5.50 x 13.50
Shipping Weight (kg)	3.99
UPS Housing Material	ABS
UPS Power Module Dimensions (hwd, in.)	5.6 x 4 x 11.8
UPS Power Module Weight (kg)	3.72
UPS Power Module Weight (lbs.)	8.2
Unit Weight (lbs.)	8.200
Unit Weight (kg)	3.72
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	5° to 113°F (-15° to 45°C)
Relative Humidity	0 to 90%, non-condensing
AC Mode BTU / Hr. (Full Load)	23
AC Mode Efficiency Rating (100% Load)	95%
AC Economy Mode Efficiency Rating (100% Load)	0.95
Operating Elevation (ft.)	6561 ft. (2000 m) above sea level
COMMUNICATIONS	
Network Management Card Description	Network management not supported
Communications Interface	None
LINE / BATTERY TRANSFER	
Transfer Time	6 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	89
High Voltage Transfer to Battery Power (Setpoint)	145
FEATURES & SPECIFICATIONS	
High Availability UPS Features	Automatic Voltage Regulation (AVR); Surge/noise protection
STANDARDS & COMPLIANCE	
Product Certifications	CSA (Canada); NOM (Mexico); UL 1778
<u> </u>	



Product Compliance	RoHS; FCC Part 15 Class A (USA)	
WARRANTY & SUPPORT		
Product Warranty Period (U.S. & Canada)	3-year limited warranty	
Product Warranty Period (Latin America)	3-year limited warranty	
Product Warranty Period (International)	2-year limited warranty	
Product Warranty Period (Mexico)	3-year limited warranty	



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