450VA 360W Line-Interactive UPS with 6 Outlets - AVR, 120V, 50/60 Hz, USB, Tower

MODEL NUMBER: **AVRT450U**









Line-interactive UPS provides basic battery backup with automatic voltage regulation for your office computer or home theater setup.

Features

450VA/360W/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, overvoltages, surges and line noise that can damage valuable electronics or destroy data. The six-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 Blackout Backup 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 35 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 6 NEMA 5-15R Outlets Four 5-15R outlets provide both battery backup and surge protection for your computer, monitor and other crucial components. The other two 5-15R outlets are 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- and High-Voltage ConditionsAVR protects your equipment from incremental hardware damage, data loss and performance problems caused by brownouts and overvoltages. The AVRT450U 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 AVRT450U incorporates technology that filters out disruptive

Highlights

- Protects equipment against blackouts, brownouts, overvoltages, surges and line noise
- AVR battery backup allows time to save files and safely shut down during blackouts
- 6 NEMA 5-15R outlets provide power to PC, home theater or digital signage equipment
- Easy-to-see LEDs indicate operating mode, low battery, overload and other vital data
- 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, line noise, brownouts, overvoltages 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

- AVRT450U 450VA 360W Line-Interactive UPS with 6 Outlets
- USB cable
- Owner’s manual

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

Easy-to-See LEDs Report Real Time UPS and Power Status Front-panel LEDs provide UPS and site power information when the AVRT450U is operating in either on-line or battery power mode. They indicate operating mode, low battery, overload and fault condition. An audible alarm will sound in case of low battery, excessive load and fault condition.

HID-Compliant USB Port Allows for Automatic Saves and Shutdowns This port connects the AVRT450U to a computer running free downloadable PowerAlert® software to enable safe unattended file saves and system shutdown in case of a prolonged power failure. USB cable is included. The UPS works with Windows, Mac and Linux operating systems.

Tower Form Factor for Easy Placement in Your Workspace or Media Center The 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	037332212917
UPS Type	Line-Interactive
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	5A
Nominal Input Voltage(s) Supported	110V AC; 115V AC; 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
OUTPUT	
Output Capacity (VA)	450
Output Capacity (kVA)	0.45
Output Capacity (Watts)	360
Output Capacity (kW)	0.36
Output Capacity Details	3.8A @ 120V. (LINE MODE) 110%+/- 10% @ 5 minutes; (BATTERY MODE) 110% +/- 10% @ 5 seconds
Power Factor	0.8
Nominal Voltage Details	120V sinusoidal in line mode and 120V PWM in battery mode
Frequency Compatibility	50 / 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 Receptacles (Surge Suppression Only)	4 UPS outlets, 2 surge-only outlets
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
Nominal Output Voltage(s) Supported	110V; 115V; 120V
Output Receptacles	(6) 5-15R
Individually Controllable Load Banks	No
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	0.5 min. (360W)
Runtime Half Load (min.)	5.7 min. (180W)
Expandable Runtime	No
DC System Voltage (VDC)	12
Battery Recharge Rate (Included Batteries)	8 hours from 10% to 90%
Battery Access	Includes bottom panel battery access door
Internal UPS Replacement Battery Cartridge	RBC51
Battery Replacement Description	Replaceable internal battery (see manual)
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 129 and 145 are reduced by 15%
Undervoltage Correction	Input voltages between 89 and 108 are boosted by 14%
USER INTERFACE, ALERTS & CONTROLS	
Switches	Power switch enables UPS on / off control
Audible Alarm	Alarm reports low-battery, fault, overload and replace battery conditions; Alarm remains silent during battery mode operation until low-battery status occurs
LED Indicators	3 LEDs indicate line power availability (green), battery power mode (yellow) and low battery, overload, replace-battery and fault mode (red)
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	316

UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Primary Form Factor	Tower
Installation Form Factors Supported with Included Accessories	Tower
Primary UPS Depth (mm)	345
Primary UPS Height (mm)	160
Primary UPS Width (mm)	122
Shipping Dimensions (hwd / in.)	9.80 x 7.20 x 16.30
Shipping Weight (kg)	5.31
UPS Housing Material	ABS
UPS Power Module Dimensions (hwd, in.)	6.3 x 4.8 x 13.6
UPS Power Module Weight (kg)	4.81
UPS Power Module Weight (lbs.)	10.6
Unit Weight (lbs.)	10.600
Unit Weight (kg)	4.81
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	Up to 90%, non-condensing
AC Mode BTU / Hr. (Full Load)	41
AC Mode Efficiency Rating (100% Load)	>95%
Operating Elevation	6561 ft. (2000 m) above sea level
COMMUNICATIONS	
PowerAlert Software	For local monitoring via the UPS's built-in USB communications port, download PowerAlert software at https://tripplite.eaton.com/products/power-alert
Communications Cable	USB interface cable included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network Management Card Description	Network management not supported
Communications Interface	USB (HID enabled)
LINE / BATTERY TRANSFER	
Transfer Time	6 milliseconds typical (10 milliseconds max)

Low Voltage Transfer to Battery Power (Setpoint)	89
High Voltage Transfer to Battery Power (Setpoint)	145
FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic Voltage Regulation (AVR); Surge/noise protection
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS
APPLICATIONS	
UPS Applications	Home/Office Desktop; Audio/Video; Retail/Point of Sale; Hospitality
STANDARDS & COMPLIANCE	
Product Certifications	CSA (Canada); NOM (Mexico); UL 1778
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
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$100,000 Ultimate Lifetime Insurance

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