

# Audio/Video AVR Series UPS

Intelligent, Line-Interactive Power Management System



## Model #: HTR05-1U

- ▶ 500VA line-interactive 1U UPS; rackmount ears included
- ▶ 7 outlets; 1 switchable load bank
- ▶ Built-in voltage regulation corrects brownouts to 90V
- ▶ Simultaneous communications via SNMPWEBCARD slot, USB and DB9 serial ports
- ▶ Included PowerAlert UPS monitoring software manages an unlimited number of network UPS systems
- ▶ 2-year warranty; \$250,000 Ultimate Lifetime Insurance (USA & Canada only)

## DESCRIPTION

Tripp Lite's HTR05-1U AVR Series intelligent, line-interactive UPS system prevents media data loss, equipment freeze-ups, downtime and equipment damage due to power outages, voltage fluctuations and transient surges. Network-grade AC surge suppression protects sensitive A/V components from damage due to transient surges and improves component performance (fuller audio/sharper video) by filtering disruptive EMI/RFI line noise. Requires only one rack space (1U); accessories included for upright tower installation. Large internal batteries provide 17 min. half-load runtime and 5 min. full load runtime. Maintains regulated 120V nominal output without using battery power during brownouts as low as 90V. 500VA/300W power handling capability is compatible with audio/video components and other sensitive electronic applications. Includes 6 UPS-supported outlets with a single-outlet load bank that can be individually controlled via software interface to reboot select equipment on demand or automatically shed less significant loads to extend battery runtime for more critical equipment. Includes 1 surge-only outlet for peripherals not requiring battery backup. Supports simultaneous remote monitoring of UPS and site power conditions via built-in USB and DB9 monitoring ports. Includes PowerAlert UPS monitoring and unattended shutdown software with complete cabling. Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter for the ultimate in IP addressability and monitoring. Multi-function audible alarms and set of 5 front panel LEDs provide at-a-glance notification of UPS and line power status. Attractive all-black color scheme. 2-year warranty; \$250,000 Ultimate Lifetime Insurance (USA & Canada only).

## KEY BUYING POINTS

- HTR05-1U AVR Series line-interactive UPS offers battery-derived sine wave AC output during power outages, voltage regulation during brownouts, plus network-grade AC surge suppression
- 500VA/300W power handling capability compatible with micro display devices, projectors, PVRs/DVRs, media center PCs, music servers and other sensitive electronic devices
- Maintains regulated 120V nominal output during brownouts as low as 90V
- Large internal batteries offer 17 min. runtime at half load (250VA/150W) and 5 min. runtime at full load (500VA/300W)
- Network-grade AC surge suppression protects sensitive A/V components from damage due to transient surges and improves component performance (fuller audio/sharper video) by filtering disruptive EMI/RFI line noise
- Includes 6 UPS-supported outlets with a single outlet load bank that can be powered on and off again via software interface. An additional surge-only outlet powers accessories not requiring battery support
- PowerAlert UPS monitoring and unattended shutdown software enables configurable network broadcast messaging, pager and email notification, event logging and running user-defined script commands
- Offers simultaneous monitoring by up to 3 directly connected devices through included USB, DB9 and SNMP\* interfaces (\*requires optional SNMPWEBCARD), or the monitoring of any number of additional UPS systems over IP with included PowerAlert monitoring software
- Communication ports support messaging of UPS and line power status, including on-battery, low-battery, power restored, AC line voltage, DC battery voltage and remaining battery capacity
- Supports Tripp Lite's WatchDog software application to restore unresponsive programs by systematically restarting applications, operating systems and ultimately rebooting completely locked computers by momentarily switching UPS power off and back on again

(requires optional WATCHDOGSW)

- Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter
- Multi-function audible alarms and 5 front panel LEDs
- Supports 1U rackmount and upright tower installation
- UPS battery set ships fully assembled and ready for installation; no time-consuming connection of internal batteries by user is necessary
- Attractive all-black color scheme
- 2-year warranty; \$250,000 Ultimate Lifetime Insurance (USA & Canada only)

## TYPICAL APPLICATIONS

- Ideal for protection of home theater/media center components and other sensitive electronic equipment, including micro display devices, PVRs/DVRs, media center PCs/servers, VoIP telephony systems, home automation/control systems and security equipment

## OPTIONS & ACCESSORIES

- SNMP accessories: [SNMPWEBCARD](#), [ENVIROSENSE](#)
- USB Hubs-accessories: [U202-004-R](#), [U205-004-R](#), [U022-010](#)
- Dataline protectors: [DNET1](#), [DTEL2](#), [DCATV](#)
- Circuit Tester: [CT120](#)
- Rack enclosures: [Rack Systems](#)
- Power Distribution: [PDU1215](#), [PS7224](#)
- Watchdog software: [WATCHDOGSW](#)
- Extended warranties: 3-Year [WEXT3-500-1500](#), 5-Year [WEXT5-500-1500](#)

## PACKAGE INCLUDES

- HTR05-1U AVR Series UPS System
- Mounting hardware
- USB and DB9 cabling
- PowerAlert Software
- Instruction manual with warranty information

## COMPLETE SPECIFICATIONS

### SYSTEM OVERVIEW

#### System overview:

HTR05-1U AVR Series line-interactive 1U UPS protects connected equipment from blackouts, brownouts, surges and EMI/RFI line noise. Maintains AC output during blackouts and continuously corrects brownouts as low as 90V back to usable levels. Supports enhanced monitoring of UPS and line power conditions via built-in USB and DB9 serial ports, included PowerAlert monitoring software and complete cabling. Includes slot for SNMPWEBCARD accessory. One single-outlet load management bank offers remote reboot of selected loads via software interface or automated load shedding to extend battery runtime for the most critical loads during blackouts. Supports 1U rackmount and upright tower form factors with included mounting hardware.

**Voltage compatibility:** 120 VAC

**Frequency compatibility:** 60 Hz

### OUTPUT

**Output volt amp capacity (VA):** 500

**Output watt capacity (watts):** 300

**Output nominal voltage:** 120VAC

**Output voltage regulation:** LINE MODE: Sine wave line voltage 120V (-15% +13%), BATTERY MODE: PWM sine wave

output within 10% of 120V

**Output frequency regulation:** LINE MODE: Passes line frequency of 60Hz +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-1Hz

**Outlet quantity / type:** 7 x NEMA 5-15R (6 UPS, 1 surge only)

**Customized load management receptacles:** 1 single-outlet load bank that supports automated load shedding and remote reboot on demand of locked network devices. Configurable via PowerAlert software to automatically switch off optional loads, like monitors, to increase available runtime for servers and other critical devices.

**Overload protection:** 15A input breaker

## INPUT

**Maximum input amps:** 5.6A

**Input connection type:** NEMA 5-15P

**Input cord length:** 10 ft., 14 gauge, Black

**Recommended electrical service:** 15A 120V

## BATTERY

**Full load runtime:** 5 min. (500VA)

**Half load runtime:** 17 min. (250VA)

**DC system voltage:** 12 VDC

**Typical battery lifespan:** 3-6 years, depending on usage

**Battery recharge rate:** 2-4 hours to 90%

**Replacement Battery Cartridge:** RBC62-1U

## VOLTAGE REGULATION

**Voltage regulation description:** Line interactive voltage regulation system corrects brownouts as low as 90 volts back to usable 120V nominal levels

**Brownout correction:** Input voltages between 90V and 108V are boosted by 14%

## LEDS ALARMS & SWITCHES

**Front panel LEDs:** 5 front panel LEDs - green POWER LED, green AVR LED, 3-color BATTERY CHARGE LED, 3-color OUTPUT LOAD LEVEL LED, red BATTERY WARNING LED.

**Alarms:** Audible alarm warns of power failure, overload, UPS fault and low battery conditions

**Switches:** 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions

## SURGE / NOISE SUPPRESSION

**AC surge suppression:** 480 joules

**AC suppression response time:** Instantaneous

**EMI / RFI AC noise suppression:** Yes

## PHYSICAL

**Shipping weight (lbs):** 22

**Shipping weight (kg):** 10.0

**Unit weight (lbs):** 18.8

**Unit weight (kg):** 8.5

**Unit Dimensions (HWD/in):** 1.75 x 17.5 x 11.75

**Unit Dimensions (HWD/cm):** 4.45 x 44.5 x 29.8

**Shipping Dimensions (HWD/in):** 5 x 22.5 x 16

**Shipping Dimensions (HWD/cm):** 12.7 x 57.2 x 40.6

**Material of construction:** Steel

<b>Form factors supported:</b>	1U rackmount and upright tower compatible
<b>Battery Access:</b>	Battery access door allows hot swap battery replacement without powering connected equipment off

## ENVIRONMENTAL

<b>Operating Temperature:</b>	+32 to +104 degrees Fahrenheit; 0 to +40 degrees Celsius
<b>Storage Temperature:</b>	+5 to +122 degrees Fahrenheit; -15 to +50 degrees Celsius
<b>Relative Humidity:</b>	0 to 95%, non-condensing
<b>Line mode BTU/hr. (Max.):</b>	65.1
<b>Battery mode BTU/hr. (Max.):</b>	437.1

## COMMUNICATIONS

<b>Network monitoring port:</b>	2 built-in monitoring ports, 1 USB & 1 DB9. Each port supports on battery, low battery, power restored, AC line voltage, DC battery voltage, load percentage, battery charge current, battery capacity, internal UPS temperature and line frequency status messaging. Interface supports timed inverter shutoff after unattended shutdown, activate self-test and 10 second reboot of connected equipment. Supports reboot of all connected devices at once or individual load banks via software interface. Compatible with Tripp Lite's PowerAlert and WatchDog software.
<b>Software and cabling included:</b>	PowerAlert UPS monitoring software for network and standalone operating systems. Ships with complete USB and DB9 cabling.
<b>SNMP compatibility:</b>	Built-in accessory slot accommodates internal SNMP/Web card and other network accessories
<b>WatchDog compatibility:</b>	Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipment - ideal for unattended kiosk applications

## LINE / BATTERY TRANSFER

<b>Transfer time from line power to battery mode:</b>	2-4 milliseconds
<b>Low voltage transfer to battery power:</b>	90V (resets to line power as line voltage increases to 94V or higher)
<b>High voltage transfer to battery power:</b>	136V (resets to line power as line voltage decreases to 132V or lower)

## CERTIFICATIONS

<b>Certifications:</b>	Tested to UL1778 (USA), Tested to CSA (Canada), Class B (Emissions), NOM (Mexico)
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## WARRANTY

<b>Optional coverage:</b>	3-year, 5-year, next-day and on-site warranty coverage available for select opportunities
<b>Product warranty:</b>	2 years
<b>Connected equipment insurance (USA and Canada Only):</b>	\$250,000

## SPECIAL FEATURES

<b>EPO port:</b>	EPO (Emergency Power Off) port and cable
<b>TVSS grounding:</b>	Back panel grounding point with thumbscrew for data line surge suppressors and other network accessories requiring a safe grounding point
<b>Cold Start:</b>	Yes, inverter can be cold started to enable temporary AC output during a power failure
<b>Appearance:</b>	Attractive all-black color scheme

*The policy of Tripp Lite is one of continuous improvement.  
Specifications are subject to change without notice.  
Therefore, your product may vary slightly from what is currently listed.*



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