

120V 2200VA 1600W A/V Pure Sine Wave UPS, Extended Run, 3U Rack-Mount, DB9 Serial, 9 Outlets

MODEL NUMBER: HTR22-3U



Description

Tripp Lite's HTR22-3U Pure Sine Wave 2200VA/1600W on-line, double-conversion UPS system prevents media data loss, equipment freeze-ups, downtime and equipment damage due to power outages, voltage fluctuations and transient surges. Provides full-time sine wave 100, 110 or 120V +/-2% output with zero transfer time between AC and battery operation. Actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 65V and overvoltages to 138V. Network-grade AC surge and EMI/RFI line noise suppression. Requires only 3 rack spaces (3U). Large internal batteries provide 18 min. half-load runtime and 6 min. full load runtime; runtime is expandable with optional BP72V15-2U and BP72V28RT-3U external battery packs. 2200VA/1600W power handling capacity is compatible with audio/video components and other sensitive electronic applications. Includes 9 UPS-supported outlets arranged in two switchable load banks that can be individually controlled via software interface to reboot selected equipment on demand or automatically shed less significant loads to extend battery runtime for more critical equipment. Supports real time UPS communications via DB9 serial port or SNMPWEBCARD slot for the ultimate in IP remote access, control and diagnostics capability with email notification. Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via both network interfaces. Includes PowerAlert monitoring software and complete cabling. Multi-function audible alarms and front-panel LEDs provide at-a-glance notification of UPS and line power status. Attractive all-black color scheme. \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

Features

- HTR22-3U Pure Sine Wave UPS provides perfectly regulated sine wave output within 2% of 120V under all usage conditions
- 2200VA/1600W power handling capacity compatible with control systems, HD sources, Audio/Video editing suites, digital consoles, DVD/music/PCs/servers, RAIDs, media centers, PVRs/DVRs, boardrooms, digital processors/EFX, racks and other sensitive electronics

Highlights

- 2200VA/1600W on-line, double-conversion, extended-run UPS; rackmount hardware included
- 9 outlets; 2 switchable load banks
- IP remote access, control and diagnostics capability with email notification (built-in accessory slot, SNMPWEBCARD available separately)
- Zero transfer time to battery takes incoming AC power and remakes it into perfect output power with a pure sine wave
- Maintains sine wave 100/110 or 120V +/-2% output during overvoltages to 138 and brownouts as low as 65V (50/60Hz auto-sensing)
- Pure Sine Wave operation completely isolates connected components from power problems
- Drivers written for Crestron, AMX and Savant for seamless integration
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

Package Includes

- HTR22-3U Audio/Video Pure Sine Wave UPS System
- PowerAlert Software and cabling
- Optional-use NEMA 5-15P Plug
- Mounting hardware for 4-post rack enclosures
- Instruction manual with warranty information



- Removes harmonic distortion, fast electrical impulses, frequency variations and other hard-to-solve power problems not addressed by other UPS types
- Corrects line voltage conditions as low as 65V and as high as 138V back to 120V (+/-2%) values
- 2 switchable load banks (each with 4 outlets) enable remote outlet management for load shedding or remote reboot of individual devices from anywhere in the world
- Standard internal battery set offers 18 min. runtime at half load (800W) and 6 min. at full load (1600W)
- Optional BP72V15-2U external battery pack increases runtime to 98 min. at half load (800W) and 41 min. at full load (1600W); limit 1
- Optional BP72V28RT-3U external battery pack increases runtime to 160 min. at half load (800W) and 69 min. at full load (1600W); multi-pack compatible
- Fault-tolerant auto-bypass maintains continuous utility output to connected equipment, even in cases where the UPS suffers internal failure and requires maintenance
- Offers complete UPS monitoring through included DB9 interface or SNMP interface (requires optional SNMPWEBCARD), or the monitoring of any number of additional UPS systems over IP with included PowerAlert monitoring software
- PowerAlert UPS monitoring and unattended shutdown software enables configurable network broadcast messaging, pager and email notification, event logging and running user-defined script commands
- Front panel LEDs offer current monitoring and battery charge level information
- UPS ships fully assembled in full compliance with DOT regulations; no time-consuming connection of internal batteries by user required
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

Specifications

| OVERVIEW | |
|---------------------------------------|---|
| UPC Code | 037332134875 |
| INPUT | |
| Rated input current (Maximum Load) | 16A |
| Nominal Input Voltage(s) Supported | 120V AC |
| UPS Input Connection Type | 5-20P |
| UPS Input Cord Length (ft.) | 10 |
| UPS Input Cord Length (m) | 3.1 |
| Recommended Electrical Service | 120V 20A dedicated circuit |
| Voltage Compatibility (VAC) | 120 |
| OUTPUT | |
| Output Volt Amp Capacity (VA) | 2200 |
| Output Watt Capacity (Watts) | 1600 |
| Frequency Compatibility | 50 / 60 Hz |
| Frequency Compatibility Details | Output frequency matches input nominal on startup |
| Output Voltage Regulation (Line Mode) | +/- 2% |



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| Load Management Receptacles | Two switchable four-outlet load banks (bank 1 - four 5-15R outlets, bank 2 - four 5-15/20R outlets) |
| Output Circuit Breakers | 15A branch rated breakers (x2) protect 4 outlets each, L5-20R outlet is unbreakered |
| Nominal Output Voltage(s) Supported | 120V |
| Output Receptacles | (4) 5-15R; (4) 5-15/20R; (1) L5-20R |
| BATTERY | |
| Full Load Runtime (min.) | 7 min. (1600w) |
| Half Load Runtime (min.) | 18 min. (800w) |
| Expandable Battery Runtime | Supports extended runtime with optional external battery packs BP72V15-2U (limit 1) and BP72V28RT-3U (multi-pack compatible) |
| Expandable Runtime | Yes |
| External Battery Pack Compatibility | BP72V15-2U (limit 1); BP72V28RT-3U (multi-pack compatible) |
| DC System Voltage (VDC) | 72 |
| Battery Recharge Rate (Included Batteries) | Less than 6 hours from 10% to 80% |
| Battery Access | Hot-swap battery replacement supported via front access panel |
| Internal UPS Replacement Battery Cartridge | RBC96-3U (quantity 1) |
| Typical Battery Lifespan | 3-6 years, depending on usage |
| VOLTAGE REGULATION | |
| Voltage Regulation Description | On-line, double-conversion power conditioning maintains output within 2% of 100/110/120 volts at all times |
| Overvoltage Correction | Maintains output of selected nominal +/-2% during overvoltages to 138V AC |
| Undervoltage Correction | 2% output voltage regulation during undervoltages to 80 |
| Severe Undervoltage Correction | Maintains output within 2% of nominal during undervoltages to 65 (under 70% load only) |
| USER INTERFACE, ALERTS & CONTROLS | |
| Switches | Power off/on switch and battery charge/load level display select switch |
| Audible Alarm | Multi-function audible alarm with distinctive ring patterns offer notification of backup operation (2 sec. on / 0.5 sec. off), low battery warning (1.25 sec. on / 0.5 sec. off), overload (sounds continuously), UPS fault (4.2 sec. on / 1 sec. off), input voltage out of frequency (2.1 sec. on / 0.14 sec. off) and high input voltage (2.1 sec. on / 0.07 sec. off) |
| LED Indicators | 14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery low, replace battery and fault status information; 4-LED meter displays load and battery charge levels; LED panel rotates for viewing in rack/tower formats |
| SURGE / NOISE SUPPRESSION | |
| UPS AC Suppression Joule Rating | 1014 |



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| EMI / RFI AC Noise Suppression | Yes |
| AC Suppression Response Time | Instantaneous |
| PHYSICAL | |
| Cooling Method | Built-in cooling fan |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount (2 post rackmount); Tower (2U-9U-Tower-Stand-Kit) |
| Primary UPS Depth (mm) | 521 |
| Primary UPS Height (mm) | 132 |
| Primary UPS Width (mm) | 445 |
| Shipping Dimensions (hwd / cm) | 64.52 x 59.44 x 33.27 |
| Shipping Dimensions (hwd / in.) | 25.40 x 23.40 x 13.10 |
| Shipping Weight (kg) | 42.73 |
| Shipping Weight (lbs.) | 94.20 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 13.21 x 44.45 x 52.07 |
| UPS Power Module Dimensions (hwd, in.) | 5.2 x 17.5 x 20.5 |
| UPS Power Module Weight (kg) | 33.97 |
| UPS Power Module Weight (lbs.) | 74.9 |
| 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) | 812.9 |
| Battery Mode BTU / Hr. (Full Load) | 885.6 |
| COMMUNICATIONS | |
| WatchDog Compatibility | 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 |
| EPO Port | Supports Emergency Power Off function via set of dedicated built-in EPO jacks |
| SNMP Compatibility | Slot for optional SNMPWEBCARD accessory (Tripp Lite Model # SNMPWEBCARD) |
| Communications Interface | DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface |
| LINE / BATTERY TRANSFER | |
| Transfer Time | No transfer time (0 ms.) in online, double-conversion mode |



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| Low Voltage Transfer to Battery Power (Setpoint) | 80V (100% load), 65V (<70% load) |
| High Voltage Transfer to Battery Power (Setpoint) | 138 |
| FEATURES & SPECIFICATIONS | |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Optional Coverage | 3- and 5-year extended warranties, plus next day and on-site warranty coverage available for select opportunities. Contact Tripp Lite for additional information. |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 Ultimate Lifetime Insurance |

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