

UNITY/I™ Single-Phase

Uninterruptible Power Systems



3kW to 8kW

Superior Power Integrity and Management for Midrange Client/Server Computing

Smart and Cost-Efficient Operation

With one of power protection's most advanced micro-processors in charge, UNITY/I Single-Phase systems need only 4 percent of incoming power to protect critical systems and valuable data. This 96% efficiency minimizes system temperature, stress on components, and daily cost-to-operate. Credit the microprocessor for a very small parts count and fewer potential fault or failure points.

High Fault-Tolerance

UNITY/I Single-Phase safeguards include a dual power track configuration: if one power path develops a fault, the second takes over to keep UPS protection on-line. Also, an internal bypass switch ensures your equipment continues to receive power in the unlikely event of UPS failure.

*U.S. and Canada only.

Excellent Power Conditioning

UNITY/I Single-Phase is a universal system: it automatically selects frequency (50 or 60 Hz) and allows you to select operating voltages to meet requirements throughout the world.

Sophisticated Self-Monitoring

UNITY/I Single-Phase systems monitor and report 18 separate alarm conditions. The exclusive PhonTek® feature permits a direct system-to-factory communication linkup for remote, expert diagnostics. Every UNITY/I Single-Phase unit comes bundled with *free* CheckUPS® II Suite power management and shutdown software and connecting cable. This software CD-ROM contains on-line documentation and support for most major operating systems. A Best Power™ SNMP Adapter can be connected for remote network operations.

Compact and Quiet

UNITY/I Single-Phase has the sleek look, small footprint, and whisper-quiet operation that fits in any office environment. In fact, UNITY/I Single-Phase is more than twice as quiet (40 decibels at 1 meter) as other UPS models on the market.

Unsurpassed Warranty

UNITY/I Single-Phase is covered by our two-year limited warranty against factory or workmanship defects. We up the ante with our limited "Double Lifetime" warranty* that repairs or replaces your UNITY/I Single-Phase if damaged by lightning, and covers up to US\$25,000 for damage to connected equipment. Call the factory for details on these limited warranties.



The Answer in Power Protection

UNITY/I™ Single-Phase

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Specifications

Model	UT3K	UT4K	UT5K	UT8K
Rating	3kVA/3kW	4kVA/4kW	5kVA/5kW	8kVA/8kW
AC Input Voltage Range	147-276V (for nominal 200/208/220/230V output); 153-276V (for nominal 240V output)			
Input Nominal Current at Full Load	200V=17A 208V=17A 220V=16A 230V=15A 240V=15A	200V=22A 208V=22A 220V=20A 230V=20A 240V=19A	200V=28A 208V=27A 220V=25A 230V=24A 240V=23A	200V=45A 208V=43A 220V=41A 230V=39A 240V=38A
Output Connection	Hardwired output is standard. (pre-configured models available - contact factory.)			
Efficiency (on line)	95%		96%	
Heat (on line): (BTU/hr.) (kW/hr.)	539 0.158	569 0.167	711 0.208	1138 0.333
Audible Noise	40dBA			
Runtime: (minutes) Full/Half @ .75 pf	19/43	12/28	9/21	13/31
Battery Charger	5 amp			10 amp
Battery Recharge	2-3 hours			
Weight: (lb) (kg)	260 118	280 127	295 134	490 222
Dimensions: H x W x D (inches) (mm)	29 x 10.5 x 25.75 737 x 267 x 654			32 x 13 x 33 813 x 330 x 838

Lightning and Surge Protection:

Passes ANSI/IEEE C62.41 Categories A3 and B3 test. Zero surge clamping response time. 0.7% LTV. UL1449 listed. 300 joule surge suppression rating. Meets IEC 801-5.

Isolation (includes output N-to-G bond):

Complete from line. Qualifies as a separately derived power source under NEC article 250-5d.

Noise Rejection: Common Mode - up to 50dB. Normal Mode - up to 90dB.

Regulation: ±3% of nominal output voltage. Exceeds recommended CBEMA and ANSI voltage regulation standards for computing equipment under any line, load, or battery conditions.

Continuous No-Break Power:

Continuous, no-break power during a complete power outage or momentary power interruption

Sine-Wave Power: Sine-wave, computer-grade power with 5% or less total harmonic distortion (THD) at rated kW load. Meets or exceeds CSA C22.2 No. 107.1 for harmonic distortion.

Load Compatibility: Guaranteed compatible with all computer loads, including power-factor corrected

Intelligent, Interactive Interface: RS-232 port featuring full-duplex serial communication, alarm contacts, inverter contacts, and remote shutdown. Includes unique PhonTek® remote diagnostic port.

Reliability Engineered: Dual-track redundant configuration that utilizes either line or inverter source for power and is designed to meet or exceed an expected MTBF of 150,000 hours.

Protection: Overload alarm and microprocessor-controlled circuit breaker. Optional output receptacles protected by fuses or circuit breakers

Overload: 200% surge

Frequency: (50 Hz or 60 Hz nominal)

On line: output frequency tracks input within adjustable limits (±3 Hz default). On inverter: ±0.15 Hz.

Temperature: 0° to +40° C operating. Storage from -20° to +60° C (-20° to +40° C if battery is not removed)

Relative Humidity: 0 to 95% without condensation

Ventilation Requirement: Clean, dust-free air, free of corrosive chemicals or other contaminants must be available with proper air circulation.

High Altitude Operation:

Maximum ambient operating temperature drops by 1° C per 305 meters (1,000 feet) above sea level, with the maximum elevation being 3,050 meters (10,000 feet).

Safety Compliance: UL 1778, UL 1449, CSA (cUL), GS (TÜV)

EMC Compliance: FCC-A, Vfg 243/1991, Vfg 46/1992, CISPR 22

Testing Standards: ANSI/IEEE C62.41 (1980), C62.45 (1987); IEC 801-2, 801-3, 801-4, 801-5

All specifications subject to change without notice.

