

# 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

## Uninterruptible Power Systems

### 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<br>208V=17A<br>220V=16A<br>230V=15A<br>240V=15A                           | 200V=22A<br>208V=22A<br>220V=20A<br>230V=20A<br>240V=19A | 200V=28A<br>208V=27A<br>220V=25A<br>230V=24A<br>240V=23A | 200V=45A<br>208V=43A<br>220V=41A<br>230V=39A<br>240V=38A |
| Output Connection                         | Hardwired output is standard. (pre-configured models available - contact factory.) |  |  |  |
| Efficiency (on line)                      | 95%  |  | 96%  |  |
| Heat (on line):<br>(BTU/hr.)<br>(kW/hr.)  | 539<br>0.158   | 569<br>0.167   | 711<br>0.208   | 1138<br>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:<br>(lb)<br>(kg)                   | 260<br>118   | 280<br>127   | 295<br>134   | 490<br>222   |
| Dimensions: H x W x D<br>(inches)<br>(mm) | 29 x 10.5 x 25.75<br>737 x 267 x 654   |  |  | 32 x 13 x 33<br>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.

