TOSHIBA
Leading Innovation

SINGLE-PHASE SOLUTIONS
UNINTERRUPTIBLE POWER SYSTEMS
INNOVATIVE UPS SOLUTIONS
FOR CRITICAL APPLICATIONS

Toshiba Uninterruptible Power Systems (UPS) features a specialized suite of single-phase UPS products renowned for reliable and efficient power supply protection and monitoring. Conveniently available in both tower- and rack-mount designs, Toshiba single-phase UPS products supply clean and uninterrupted power to the critical systems powering datacenters, telecommunications, retail, healthcare, broadcasting, and industrial applications.

Toshiba single-phase UPS products are anchored by unique advantages resulting in innovative solutions for a wide range of applications:

❯ INSULATED-GATE BIPOLAR TRANSISTORS

Developed in-house, insulated-gate bipolar transistors (IGBTs) are an input power factor correction technology. This technology allows UPS products to maintain a constant DC level without requiring more reactive power. IGBTs actively protect critical equipment by correcting potential power abnormalities such as spikes and brownouts. As a result, Toshiba single-phase UPS products are highly efficient with precise voltage control, wide input windows for voltage and frequency, and increased life expectancy.

❯ TRUE ONLINE DOUBLE-CONVERSION

The true online double-conversion topology ensures delivery of clean and stable power to critical loads by converting and conditioning utility power first to DC and then back to AC. For extra precaution the UPS topology also isolates the critical load from utility power.

❯ AVAILABLE OPTIONS

Toshiba UPS installations may be customized to meet varying application requirements thanks to a number of available options. Maintenance bypass systems and transient voltage surge suppressors provide additional protection from extreme utility power abnormalities. Isolation protection is available for the 1000+ and 1600XP Series UPS models.

❯ REMOTE MONITORING

Toshiba offers a suite of products to monitor the status of one or many Toshiba UPS installations. RemotEye® II/III is a complete Toshiba UPS management solution to control and monitor remotely via Simple Network Management Protocol (SNMP), HyperText Transfer Protocol (HTTP), and Modbus TCP. Features include email notifications and automated orderly shutdown to minimize data loss.

❯ THREE YEAR WARRANTY

Toshiba single-phase UPS products come standard with the security of a three year warranty including dedicated 24/7 customer service and support.
### 1000 SERIES

#### MODEL

<table>
<thead>
<tr>
<th>Size</th>
<th>1000 VA</th>
<th>1500 VA</th>
<th>2000 VA</th>
<th>3000 VA</th>
<th>6000 VA</th>
</tr>
</thead>
</table>

#### TOWER

<table>
<thead>
<tr>
<th>US 120V Model</th>
<th>UT1A1A010C6</th>
<th>UT1A1A015C6</th>
<th>UT1A1A020C6</th>
<th>UT1A1A030C6</th>
<th>—</th>
</tr>
</thead>
<tbody>
<tr>
<td>International 230V Model</td>
<td>UT1E1E010C6</td>
<td>UT1E1E015C6</td>
<td>UT1E1E020C6</td>
<td>UT1E1E030C6</td>
<td>—</td>
</tr>
</tbody>
</table>

#### RACK-MOUNT (2U)

<table>
<thead>
<tr>
<th>US 120V Model</th>
<th>UT1A1A010C6RKB2</th>
<th>UT1A1A015C6RKB2</th>
<th>UT1A1A020C6RKB2</th>
<th>UT1A1A030C6RKB2</th>
<th>UT1G1G060C6RKB3 + UT1-BR-0607</th>
</tr>
</thead>
<tbody>
<tr>
<td>230V Model</td>
<td>UT1E1E010C6RKB2</td>
<td>UT1E1E015C6RKB2</td>
<td>UT1E1E020C6RKB2</td>
<td>UT1E1E030C6RKB2</td>
<td>UT1G1G060C6RKB3 + UT1-BR-0607</td>
</tr>
</tbody>
</table>

#### INPUT

- **Voltage**: 120 VAC (80 to 144 V, +20% to -33%)
- **International Voltage**: 230 VAC (161 to 276 V, +20% to -30%)
- **Capacity (VA)**: 1000 VA, 1500 VA, 2000 VA, 3000 VA
- **Capacity (W)**: 700 W, 1050 W, 1400 W, 2100 W
- **Frequency**: 50/60 Hz Auto-Sensing
- **Power Factor**: Greater than 0.97
- **Topology**: True Online, Double-Conversion, Input PF Correction

#### OUTPUT

- **Voltage**: 100/110/120/127 VAC
- **International Voltage**: 208/220/230/240 VAC
- **Frequency**: 50/60 Hz Auto-Sensing
- **Wave Form**: Sinewave, Zero Transfer Time
- **Load Power Factor**: 0.70
- **Efficiency AC/DC/AC**: > 86% to > 89%
- **Rated Current**: 8.3 A, 12.5 A, 16.6 A, 25 A
- **International Rated Current**: 4.3 A, 6.5 A, 8.7 A, 13 A
- **Overload Capacity**: 125% for 1 Minute; 130% for 10 Seconds
- **Crest Factor**: 3.0 Seconds at Full Load

#### BATTERY

- **DC Link (Tower & 2U)**: 36 V/12 V 9 AH x 3, 72 V/12 V 9 AH x 6, 240 V 12 V x 20
- **Back-Up Time (Tower & 2U)**: 7 Minutes (Full Load), 6 Minutes (Full Load), 6 Minutes (Full Load), 5 Minutes (Full Load), 7 Minutes (Full Load)
- **Type**: Valve-Regulated Lead Acid; Flame Retardant (9.0 AH)

#### PHYSICAL

- **Interface**: RS-232 & USB Standard, Remote Contact, RemotEye® II, & Environmental Monitoring Device
- **Dimensions of Tower (L x W x H)**: 16.5’’ x 6.0’’ x 9.4’’
- **Dimensions of 2U (L x W x H)**: 16.7’’ x 16.9’’ x 3.5’’
- **Weight (Tower/2U)**: 35.6 lbs. / 37.6 lbs., 37.4 lbs. / 37.6 lbs., 68.4 lbs. / 69.5 lbs., 72.6 lbs. / 71.5 lbs., 148 lbs.
- **Line Cord**: 5-15P, 5-20P, L5-30P
- **International Line Cord**: IEC 320, Hardwire & L6-30P
- **Receptacles (Tower/2U)**: NEMA 5-15R (6/6), NEMA 5-20R (12/4), IEC 320 C13 (4/4)

#### ENVIRONMENT

- **Operating Temperature**: 0° to 40°C (32° to 104°F)
- **Altitude**: 11,500 Feet (3,500 Meters) Above Sea Level

#### WARRANTY

- **Three Years on Electronics; Two Years Full Replacement on Battery; See Toshiba Single-Phase Warranty Policy for Full Details**
## 1000+ SERIES

### MODEL

<table>
<thead>
<tr>
<th>Size</th>
<th>1000 VA</th>
<th>2400 VA</th>
</tr>
</thead>
<tbody>
<tr>
<td>US 120V Model</td>
<td>UT1A101C6T</td>
<td></td>
</tr>
<tr>
<td>International 230V Model</td>
<td></td>
<td>UT1G2L024C6T</td>
</tr>
</tbody>
</table>

### INPUT

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 VAC</th>
<th>Single-Phase 208/240 VAC (Three-Wire Input/L-L, G)</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Voltage</td>
<td>120/208/240 VAC (Three-Wire Input/L-L, G)</td>
<td></td>
</tr>
<tr>
<td>Capacity (VA)</td>
<td>1000 VA</td>
<td>2400 VA</td>
</tr>
<tr>
<td>Capacity (W)</td>
<td>700 W</td>
<td>1920 W</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz Auto-Sensing</td>
<td></td>
</tr>
<tr>
<td>Power Factor</td>
<td>Greater than 0.97</td>
<td></td>
</tr>
<tr>
<td>Topology</td>
<td>True Online, Double-Conversion, Input PF Correction Isolation Transformer</td>
<td></td>
</tr>
</tbody>
</table>

### OUTPUT

<table>
<thead>
<tr>
<th>Voltage</th>
<th>100/110/115/120/127 VAC</th>
<th>120/200/208/220/230/240 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Voltage</td>
<td>100/110/115/120/127 VAC</td>
<td>120/200/208/220/230/240 VAC</td>
</tr>
<tr>
<td>Frequency</td>
<td>208/240 VAC</td>
<td>208/240 VAC</td>
</tr>
<tr>
<td>Wave Form</td>
<td>50/60 Hz Auto-Sensing</td>
<td>50/60 Hz Auto-Sensing</td>
</tr>
<tr>
<td>Load Power Factor</td>
<td>0.70</td>
<td>0.80</td>
</tr>
<tr>
<td>Efficiency AC/DC/AC</td>
<td>&gt; 86%</td>
<td>&gt; 87%</td>
</tr>
<tr>
<td>Rated Current</td>
<td>8.3 A</td>
<td>10 A (240 V)</td>
</tr>
<tr>
<td>International Rated Current</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Overload Capacity</td>
<td>125% for 1 Minute, 130% for 10 Seconds</td>
<td></td>
</tr>
<tr>
<td>Crest Factor</td>
<td>3.0 at Full Load</td>
<td>—</td>
</tr>
</tbody>
</table>

### BATTERY

| DC Link (Tower & 2U) | 36 V / 12 V 9 AH x 3 | 72 V / 12 V 9 AH x 12 (2 Strings) |
| Back-Up Time (Tower & 2U) | 7 Minutes (Full Load) | 11 Minutes |
| Type                  | Valve-Regulated Lead Acid; Flame Retardant (9.0 AH) | |

### PHYSICAL

<table>
<thead>
<tr>
<th>Interface</th>
<th>RS-232 &amp; USB Standard, Remote Contact, RemotEye® II, &amp; Environmental Monitoring Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions of Tower (L x W x H)</td>
<td>23.3” x 6.0” x 9.4”</td>
</tr>
<tr>
<td>Dimensions of 2U (L x W x H)</td>
<td>—</td>
</tr>
<tr>
<td>Weight (Tower/2U)</td>
<td>51 lbs.</td>
</tr>
<tr>
<td>Line Cord</td>
<td>5-15P</td>
</tr>
<tr>
<td>International Line Cord</td>
<td>—</td>
</tr>
<tr>
<td>Receptacles (Tower/2U)</td>
<td>NEMA 5-15 (6)</td>
</tr>
<tr>
<td>International Receptacles (Tower/2U)</td>
<td>—</td>
</tr>
</tbody>
</table>

### ENVIRONMENT

| Operating Temperature | 0°C to 40°C (32°F to 104°F) |
| Altitude | 11,500 Feet (3,500 Meters) Above Sea Level |

### WARRANTY

Three Years on Electronics; Two Years Full Replacement on Battery; See Toshiba Single-Phase Warranty Policy for Full Details
1600XP SERIES

MODEL

Size
- 3.6 KVA (3.1 KW)
- 6 KVA (5.1 KW)
- 8 KVA (6.8 KW)
- 10 KVA (8.5 KW)
- 14 KVA (11.9 KW)
- 18 KVA (15.3 KW)
- 22 KVA (18.7 KW)

Topology
True Online, Double-Conversion; IGBT Power Factor Corrected Input; Internal Isolation Transformer

Certifications

INPUT

Voltage
Single-Phase 208/240 VAC (Three-Wire Input/L, G); 230 VAC (Three-Wire Input L, N, G), +10% -30% (Based on Typical 70% Load)

Frequency
45 to 65 Hz (Auto-Sensing)

Power Factor
> 0.95 For All Loads

Current THD
< 5% (Even for 100% Non-Linear Loads)

AC Input Breaker Rating
- 30 A
- 50 A
- 60 A
- 63 A
- 100 A
- 125 A

OUTPUT

Voltage
Single-Phase 240/208/120 VAC (Four-Wire Output/L-L, N, G) 230 VAC (Three-Wire Output L, N, G)

Voltage Regulation
±3%; ±1% Typical

Frequency
50/60 Hz; ±0.5 Hz/1.0 Hz/1.5 Hz (Factory or Authorized Service Center Selectable)

Voltage THD
< 3% for Linear Load; 1% Typical

Common Mode Noise
< 0.5 V RMS

Rated-Load Power Factor
0.85 (0.6 to 1.0) Lag

Rated Output Current @ 240 V
- 15 A
- 25 A
- 33.3 A
- 41.6 A
- 58 A
- 75 A
- 91.6 A

Maximum Peak Output Current
- 45 A
- 75 A
- 100 A
- 125 A
- 174 A
- 225 A
- 275 A

Overload Capacity
Inverter Mode: 150% for 10 Seconds, 125% for 30 seconds; Bypass Mode: 125% for 10 Minutes, 1000% for One Cycle

BATTERY

Battery Type
Valve-Regulated Lead Acid; Flame Retardant (9.0 AH)

Backup Time (Fully Charged)
- 7 Minutes
- 7 Minutes
- 5 Minutes
- 5 Minutes
- 3 Minutes

0.85 Power Factor; 77°F; Approximately 30% More Runtime for Output Power Factor of 0.7 (Triple Backup Time at ½ Load)

Recharge Time
24 Hours (Full), 12 Hours (90%)

DC Link
- 144 VDC
- 216 VDC
- 288 VDC

ENVIRONMENT

Efficiency (AC-DC-AC)
> 85%

Temperature Range
0 to 40°C (Operating); -20°C to +40°C (Storage)

Heat Generation (BTU/Hr)
- 1,843
- 3,071
- 4,095
- 5,118
- 7,168
- 9,213
- 11,260

Altitude
6,600 Feet (2,000 Meters) Maximum Without Derating

Audible Noise
< 60 DBA at 1 Meter

MECHANICAL

Enclosure
Steel Enclosure; Complies with NEMA 1 and UL Type-1 Standard

Enclosure Dimensions (L x W x H)
- 33” x 10” x 22.1”
- 33” x 10” x 27.5”
- 34.9” x 13” x 28.4”
- 36.1” x 17.5” x 39.1”

Shipping Weight
- 280 lbs. / 127 kg
- 346 lbs. / 157 kg
- 476 lbs. / 214 kg
- 784 lbs. / 355 kg
- 784 lbs. / 355 kg
- 835 lbs. / 379 kg

Battery Pack Size (L x W x H)
- 19” x 7.3” x 5” (Battery Pack Part # 51896-FS)

Battery Pack Quantity
- 2
- 3
- 4
- 8

ADDITIONAL FEATURES

Output Isolation Transformer, RS232 & Dry Contact Interface, Crest Factor of 3, Angled Terminal Blocks for Easy Installation, Casters for Mobility

OPTIONS

SNMP & WEB-Based Monitoring
RemotEye® III, RemotRadar®, & Environmental Monitoring Device

WARRANTY

Three Years on Electronics; Two Years Full Replacement on Battery; See Toshiba Single-Phase Warranty Policy for Full Details