

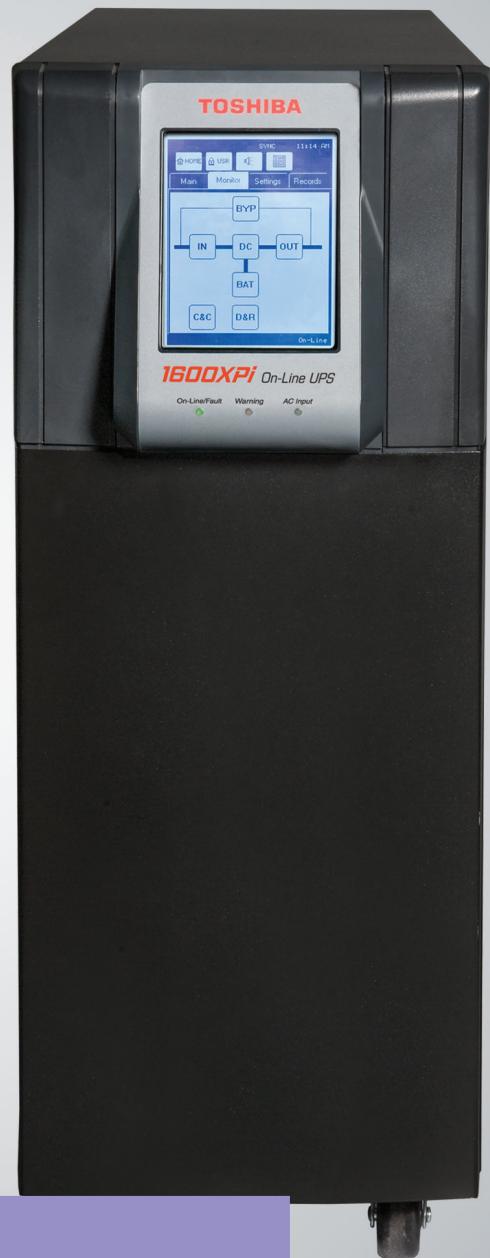
TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

POWER ELECTRONICS

Single-Phase

SOLUTIONS



MODEL				
Model Number - Tower	T1S0A1000AXA	T1S0A1500AXA	T1S0A2000AXA	T1S0A3000AXA
Model Number - Rackmount (2U)	T1S0A1000AXAR2	T1S0A1500AXAR2	T1S0A2000AXAR2	T1S0A3000AXAR2 / T1S0A3000AXAR2P1
Power Rating VA/Watts	1000/900	1500/1350	2000/1800	3000/2700
Topology	True Online, Double-Conversion			
Certifications	UL 1778, CUL, FCC			
INPUT				
Nominal Input Voltage	120V			
Input Voltage Range	90-144V @ Full Load Minimum: 60V at 25%, 70V at 50%, 80V at 75% Load +/-5V			
Input Frequency	50/60 Hz Auto-Sensing			
Input Power Factor	Greater than 0.97			
Input Connections	NEMA 5-15P	NEMA 5-15P	NEMA 5-20P	NEMA L5-30P
OUTPUT				
Nominal Output Voltage	120V			
Other Output Voltage	100/110/115 (selectable from LCD panel)			
Output Frequency	50/60 Hz +/- 5%			
Output Voltage Distortion	< 5% THD at full non-linear load, < 2.5% THD at full linear load			
Output Connections (Tower Model)	5-15R x 6	5-15R x 6	5-20R x 12	5-20R x 8, L5-30R x 1
Output Connections (Rack Model)	5-15R x 6	5-15R x 6	5-20R x 4	5-20R x 4 or 5-20R x 2, L5-30R x 1
Wave Form	Sinewave			
Load Power Factor	0.90			
Efficiency AC/DC/AC	86%			
Overload Capacity	106-120% 30sec.; 121-150% 10sec.			
Crest Factor	3:1			
BATTERY				
Battery Voltage (Tower Model)	36V / 12V 9AH x 3	48V / 12V 9AH x 4	72V / 12V 9AH x 6	96V / 12V 9AH x 8
Battery Voltage (Rack Model)	36V / 12V 9AH x 3	48V / 12V 9AH x 4	72V / 12V 9AH x 6	
Est. Back-Up Time (Tower Model)	5 minutes (full load)			
Est. Back-Up Time (Rack Model)	5 minutes (full load)			3 minutes (full load)
Battery Type	Valve-Regulated Lead Acid; Flame Retardant (9.0 AH)			
Typical Recharge Time	< 4 hours to over 90%			
PHYSICAL				
Interface	RS232, USB, Monitoring Card Slot			
Dimensions of Tower (W x D x H)	6.0 x 16.5 x 9.4	6.0 x 19.7 x 9.4	8.9 x 16.5 x 14.1	
Dimensions of Rackmount (W x D x H)	16.9 x 16.7 x 3.3	16.9 x 19.7 x 3.3	16.9 x 25 x 3.3	
Net Weight Tower	33.4 lbs.	42.7 lbs.	67.1 lbs.	68.4 lbs
Net Weight Rackmount	35.9 lbs.	39.4 lbs.	65.6 lbs.	73.9 lbs.
ENVIRONMENT				
Operating Temperature	0° to 40°C (32° to 104°F)			
Altitude	2,000 Meters (6,600 ft.) Above Sea Level Maximum - No Derating Under 1,000 Meters - (304.8 ft.)			



3 THREE YEAR WARRANTY

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

MODEL												
1600XPi Model Number (Tower)	H3BG2L036C61T	H3BG2L060C61T	H3BG2L080C61T	H3BG2L100C61T	H3BG2L140C61T	H3BG2L180C61T	H3BG2L220C61T					
Power Rating kVA (kW)	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	UL 1778, CUL											
INPUT												
Input Voltage	Single-Phase 208/240 VAC (Three-Wire Input/L-L, G); 230 VAC (Three-Wire Input/L, N, G), +10% -30% (Based on Typical 70% Load)											
Input Frequency	45 to 65 Hz (Auto-Sensing)											
Input Power Factor	Greater than 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	100 A	125 A					
OUTPUT												
Output Voltage	Single-Phase 240/208/120 VAC (Four-Wire Output/L-L, N, G)											
Output Voltage Regulation	±3%; ±1% Typical											
Frequency	50/60 Hz; ±0.5 Hz/1.0 Hz/1.5 Hz (Factory or Authorized Service Center Selectable)											
Output Voltage Distortion	< 6% THD at full non-linear load, < 3% THD at full linear load											
Wave Form	Sinewave											
Load Power Factor	0.85											
Efficiency AC/DC/AC	Greater than 85%											
Rated Output Current @ 240 V	15 A	25 A	33.3 A	41.6 A	58 A	75 A	91.6 A					
Overload Capacity	Inverter Mode: 150% for 10 Seconds, 125% for 30 seconds; Bypass Mode: 125% for 10 Minutes, 1000% for One Cycle											
Crest Factor	3:1											
BATTERY												
Battery Type	Valve-Regulated Lead Acid; Flame Retardant (9.0 AH)											
Backup Time (Fully Charged)	7 Minutes	7 Minutes	7 Minutes	5 Minutes	7 Minutes	5 Minutes	3 Minutes					
Recharge Time	24 Hours (Full), 12 Hours (90%)											
Battery Voltage	144 VDC	216 VDC	288 VDC									
PHYSICAL												
Interface	RS-232 and Remote Contact Standard, RemotEye® 4 Standard for 1600XPi											
Dimensions (W x D x H)	10" x 34" x 22.1"	10" x 34" x 27.5"	13" x 34.9" x 28.3"	17.5" x 36.1" x 39"								
Net Weight	260 lbs.	366 lbs.	452 lbs.	492 lbs.	777 lbs.	865 lbs.	866 lbs.					
Shipping Weight	308 lbs.	414 lbs.	506 lbs.	546 lbs.	839 lbs.	927 lbs.	928 lbs.					
Enclosure	Steel Enclosure; Complies with NEMA 1 and UL Type-1 Standard											
Battery Pack Qty (6 batteries per pack)	2	3	4	8								
ENVIRONMENT												
Operating Temperature	0° to 40°C (32° to 104°F)											
Altitude	2,000 Meters - (6,600 Feet) Above Sea Level, Maximum Without Derating											
Audible Noise	< 60 DBA at 1 Meter											
ADDITIONAL FEATURES												
	Output Isolation Transformer, Angled Terminal Blocks for Easy Installation, Casters for Mobility											
OPTIONS												
SNMP & WEB-Based Monitoring	RemotRadar™, Environmental Monitoring Device Option											
Input/Output Connection Options	Line Cord and Receptacle Option											



3 THREE YEAR WARRANTY

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

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

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 1600XPi Series UPS models.

REMOTE MONITORING

Toshiba offers RemoteRadar®, an On-premise cloud monitoring system to protect your valuable equipment and assets anytime and anywhere. RemotEye® is a complete Toshiba UPS management card to control and monitor remotely via Simple Network Management Protocol (SNMP), Hypertext Transfer Protocol (HTTP), Modbus TCP/RTU, and BACNET IP/MSTP. 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.

INDUSTRIES SERVED

- Data Center
- Industrial
- Commercial
- Emergency/Healthcare

SINGLE-PHASE APPLICATIONS

- Computer Systems
- Server Rooms
- Voice/Data Network Closets
- Edge Data Centers
- Point of Sale Equipment
- Banking Systems
- Retail Back Office Systems
- School System Computer Rooms
- Medical Labs
- Light Industrial



© 2020
Toshiba International Corporation
Power Electronics
13131 West Little York Road
Houston, Texas 77041 USA
Tel +713-466-0277
US 1-800-231-1412
Rev.01ESSENCE3019

TOSHIBA
TOSHIBA INTERNATIONAL CORPORATION



TOSHIBA POWER ELECTRONICS

Uninterruptible Power Systems • SCiB™ Lithium Ion Batteries • Energy Management Systems
Remote Monitoring • High Power Chargers • Containerized Solutions
PDU • RPP • Server Rack Enclosures

www.toshibaups.com

