

TOSHIBA
Leading Innovation >>>



SINGLE-PHASE SOLUTIONS

UNINTERRUPTIBLE POWER SYSTEMS





> 1600XPi/XP 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	UL 1778, CUL, CE, FCC Class A, IEEE 587, ANSI/C62.41, ISO 9001, ISO 14001, NEMA/PE1-1993, RoHs						

TOWER

1600XPi US Model	H3BG2L036C61T	H3BG2L060C61T	H3BG2L080C61T	H3BG2L100C61T	H3BG2L140C61T	H3BG2L180C61T	H3BG2L220C61T
1600XP US Model	UH3G2L036C61T	UH3G2L060C61T	UH3G2L080C61T	UH3G2L100C61T	UH3G2L140C61T	UH3G2L180C61T	UH3G2L220C61T

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)						
Capacity (VA)	3.6 KVA	6 KVA	8 KVA	10 KVA	14 KVA	18 KVA	22 KVA
Capacity (W)	3.1 KW	5.1 KW	6.8 KW	8.5 KW	11.9 KW	15.3 KW	18.7 KW
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	100 A	125 A

OUTPUT

Voltage	Single-Phase 240/208/120 VAC (Four-Wire Output/L-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						
Wave Form	Sinewave, Zero Transfer Time						
Common Mode Noise	< 0.5 V RMS						
Load Power Factor	0.85 (0.6 to 1.0) Lag						
Efficiency AC/DC/AC	> 85%						
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, 100% for One Cycle						
Crest Factor	3.0						

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	0.85 Power Factor; 77°F; Approximately 30% More Runtime for Output Power Factor of 0.7 (Triple Backup Time at ½ Load) 24 Hours (Full), 12 Hours (90%)						
DC Link	144 VDC	216 VDC					288 VDC

PHYSICAL

Interface	RS-232 and Remote Contact Standard, RemotEye® IV Standard for 1600XPi						
Demensions (L x W x H)	33" x 10" x 22.1"	34" x 10" x 27.5"	34.9" x 13" x 28.4"			36.1" x 17.5" x 39.1"	
Weight	253 lbs. / 115 kg	354 lbs. / 161 kg	466 lbs. / 211 kg			771 lbs. / 350 kg	
Shipping Weight	308 lbs. / 140 kg	414 lbs. / 188 kg	533 lbs. / 242 kg			839 lbs. / 381 kg	
Enclosure	Steel Enclosure; Complies with NEMA 1 and UL Type-1 Standard						
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	

ENVIRONMENT

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

ADDITIONAL FEATURES

Output Isolation Transformer, Angled Terminal Blocks for Easy Installation, Casters for Mobility

OPTIONS

SNMP & WEB-Based Monitoring Connectivity	RemotEye® III/4, RemotRadar™, Environmental Monitoring Device Option Line Cord and Receptacle Option						
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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

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 1600XPi/XP Series UPS models.

▶ REMOTE MONITORING

Toshiba offers a suite of products to monitor the status of one or many Toshiba UPS installations. RemotEye® 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.



Retail



Data Centers



Healthcare



Commercial

UPS SOLUTIONS



DIVISIÓN DE EQUIPOS E INFRAESTRUCTURA PARA SERVICIOS DE ENERGÍA ELÉCTRICA

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TOSHIBA POWER ELECTRONICS DIVISION:

- Uninterruptible Power Systems
- Rechargeable Batteries
- Power Conditioning Systems
- Remote Monitoring

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