

TOSHIBA

Leading Innovation >>>



SINGLE-PHASE SOLUTIONS

UNINTERRUPTIBLE POWER SYSTEMS





> T1000 SERIES

MODEL	
Size	6000 VA
TOWER	
208/240Vin 208/240Vout System Hardwire Input/Output	T1S0A6000GXG
230Vin 230Vout System Hardwire Input with Output Receptacles	T1S1A6000FXF
208/240Vin 208/240Vout System Hardwire Input with Output Receptacles	T1S2A6000GXG
208/240Vin 208/240/120Vout System Hardwire Input with Output Receptacles	T1S3A6000GXA
208/240Vin 208/240Vout System with Input Line Cord & Output Receptacles	T1S4A6000GXG
208/240Vin 208/240/120Vout System with Input Line Cord & Output Receptacles	T1S5A6000GXA
RACK-MOUNT (6U-9U)	
208/240Vin 208/240Vout System Hardwire Input/Output (6U)	T1S0A6000GXGR6
230Vin 230Vout System Hardwire Input with Output Receptacles (6U)	T1S1A6000FXFR6
208/240Vin 208/240Vout System Hardwire Input with Output Receptacles (6U)	T1S2A6000GXGR6
208/240Vin 208/240/120Vout System Hardwire Input with Output Receptacles (9U)	T1S3A6000GXAR9
208/240Vin 208/240Vout System with Input Line Cord & Output Receptacles (6U)	T1S4A6000GXGR6
208/240Vin 208/240/120Vout System with Input Line Cord & Output Receptacles (9U)	T1S5A6000GXAR6
INPUT	
Voltage	208/240V
Capacity (VA)	6000VA
Capacity (W)	5400W
Frequency	50 / 60 Hz Auto-Sensing
Power Factor	Greater than 0.97
Topology	True on-line, Double conversion, Input PF correction
OUTPUT	
Voltage	200/208/220/230/240V (L-L) and Option with Transformer for 120 V (L-N)
Frequency	50 / 60 Hz Auto-Sensing
Wave Form	Sinewave, Zero Transfer Time
Load Power Factor	0.9
Efficiency AC/DC/AC	Greater than 89%
Rated Current (International)	25A
Overload Capacity	25A
Crest Factor	125% for 1 min., 150% for 10 sec.
BATTERY	
DC Voltage (One Battery Module)	216 Vdc / 12V 9AH x 18
Backup Time (One Battery Module)	5 min (full load @ 0.9pf)
Type	Valve-Regulated Lead Acid; Flame Retardant (9.0 Amp Hr)
PHYSICAL	
Interface	Dry Contact & USB standard, RemotEye® 4 and EMD option
Dimensions Tower 2 Modules (W x D x H in)	10.44 x 24.38 x 16.73
Weight Tower 2 Modules (lbs)	212
Dimensions Tower 3 Modules (W x D x H in)	15.66 x 24.38 x 16.73
Weight Tower 3 Modules (lbs)	288
Dimensions Rackmount 6U (W x D x H in)	16.73 x 24.38 x 10.44
Weight Rackmount 6U (lbs)	212
Dimensions Rackmounting 9U (W x D x H in)	16.73 x 24.38 x 15.66
Weight Rackmount 9U (lbs)	288
Input	Hardwired or Line Cord
Output	Hardwired or Receptacles
ENVIRONMENT	
Operating Temperature	0 - 40°C (32 - 104°F)
Altitude	11500 ft (3500 m) Above Sea Level
Heat Rejection (BTU/Hour) @ 240 V	2513
WARRANTY	Three Years on Electronics; Two Years Full Replacement on Battery; See Toshiba Single-Phase Warranty Policy for Full Details



> 1000/1000+ SERIES

MODEL	1000 SERIES				1000+ SERIES
Size	1000 VA	1500 VA	2000 VA	3000 VA	2400 VA
TOWER					
US 120V Model	UT1A1A010C6	UT1A1A015C6	UT1A1A020C6	UT1A1A030C6	UT1G2L024C6T
International 230V Model	UT1E1E010C6	UT1E1E015C6	UT1E1E020C6	UT1E1E030C6	
RACK-MOUNT (2U)					
US 120V Model	UT1A1A010C6RKB2	UT1A1A015C6RKB2	UT1A1A020C6RKB2	UT1A1A030C6RKB2	—
230V Model	UT1E1E010C6RKB2	UT1E1E015C6RKB2	UT1E1E020C6RKB2	UT1E1E030C6RKB2	—
INPUT					
Voltage	120 VAC (80 to 144 V, +20% to -33%)				Single-Phase 208/240 VAC (Three-Wire Input/L-L, G) (160-276V, +15% to -34%)
International Voltage	230 VAC (161 to 276 V, +20% to -30%)				
Capacity (VA)	1000 VA	1500 VA	2000 VA	3000 VA	2400 VA
Capacity (W)	700 W	1050 W	1400 W	2100 W	1920 W
Frequency	50/60 Hz Auto-Sensing				50/60 Hz Auto-Sensing
Power Factor	Greater than 0.97				Greater than 0.97
Topology	True Online, Double-Conversion, Input PF Correction				True Online, Double-Conversion, Input PF Correction Isolation Transformer
OUTPUT					
Voltage	100/110/115/120/127 VAC				120/200/208/220/230/240 VAC
International Voltage	208/220/230/240 VAC				
Frequency	50/60 Hz Auto-Sensing				50/60 Hz Auto-Sensing
Wave Form	Sinewave, Zero Transfer Time				Sinewave, Zero Transfer Time
Load Power Factor	0.70				0.80
Efficiency AC/DC/AC	> 86%				> 87%
Rated Current	8.3 A	12.5 A	16.6 A	25 A	10 A (240 V)
International Rated Current	4.3 A	6.5 A	8.7 A	13 A	
Overload Capacity	125% for 1 Minute; 130% for 10 Seconds				125% for 1 Minute; 130% for 10 Seconds
Crest Factor	3.0 Seconds at Full Load				3.0 at Full Load
BATTERY					
DC Link (Tower & 2U)	36 V/12 V 9 AH x 3		72 V/12 V 9 AH x 6		72 V / 12 V 9 AH x 12 (2 Strings)
Back-Up Time (Tower & 2U)	7 Minutes (Full Load)	6 Minutes (Full Load)	6 Minutes (Full Load)	5 Minutes (Full Load)	11 Minutes
Type	Valve-Regulated Lead Acid; Flame Retardant (9.0 AH)				Valve-Regulated Lead Acid; Flame Retardant (9.0 AH)
PHYSICAL					
Interface	RS-232 & USB Standard, Remote Contact, RemotEye® II, & Environmental Monitoring Device				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"		16.7" x 8.9" x 14.2"		23.2" x 10.1" x 27.6"
Dimensions of 2U (L x W x H)	16.7" x 16.9" x 3.5"		25.0" 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.	154.3 lbs.
Line Cord	5-15P		5-20P	L5-30P	Hardwire or Optional L6-20P
International Line Cord	IEC 320				
Receptacles (Tower/2U)	NEMA 5-15R (6/6)		NEMA 5-20R (12/4)		Hardwire/Optional (3) 5-20R or (2) L6-20R & (1) 5-20R Duplex
International Receptacles (Tower/2U)	IEC 320 C13 (4/4)	IEC 320 C13 (4/4)	IEC 320 C13 (8/4)	IEC 320 C13 (8/4)	
ENVIRONMENT					
Operating Temperature	0° to 40°C (32° to 104°F)				0° to 40°C (32° to 104°F)
Altitude	11,500 Feet (3,500 Meters) Above Sea Level				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					



> 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, 1000% 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						
Dimensions (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	RemotEye® III/4, RemotRadar™, Environmental Monitoring Device Option						
Connectivity	Line Cord and Receptacle Option						

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



TOSHIBA POWER ELECTRONICS DIVISION:

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

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