





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

>T1000 SERIES

Size	1000 VA 2000 VA		5200 VA	6000 VA		
Topology		e on-line, Double conve	rsion. Input PF correcti			
Size	UL 1778, CUL, CE, FCC UL 1778, CUL, FCC					
TOWER						
120Vin 120Vout Model (US)	T1S0A1000AXA	T1S0A2000AXA	-	-		
230Vin 230Vout Model (International)	T1S0A1000FXF	T1S0A2000FXF	-	-		
208/240Vin 208/240Vout Model - Hardwire Input/Output	-	-	-	T1S0A6000GXG		
208/240Vin 208/240Vout Model - Hardwire Input w/ Output Receptacles	-	-	-	T1S2A6000GXG		
208/240Vin 208/240Vout Model - Input Line Cord w/ Output Receptacles	-	-	T1S4A5200GXG	T1S4A6000GXG		
208/240Vin 208/240/120Vout Model - Hardwire Input w/ Output Receptacles	-	-	-	T1S3A6000GXG		
208/240Vin 208/240/120Vout Model - Input Line Cord w/ Output Receptacles	-	-	T1S5A5200GXA	T1S5A6000GXG		
RACK-MOUNT (6U-9U)	J		1	J		
120Vin/120Vout Model (2U)	T1S0A1000AXAR2	T1S0A2000AXAR2	-	-		
230Vin/230Vout Model (2U) (International)	T1S0A1000FXFR2	T1S0A2000FXFR2	-	-		
208/240Vin 208/240Vout Model - Hardwire Input/Output (6U)	-	-		T1S0A6000GXGR		
208/240Vin 208/240Vout Model - Hardwire Input v/ Output Receptacles (6U)	-	-	-	T1S2A6000GXGR		
208/240Vin 208/240Vout Model - Input Line Cord w/ Output Receptacles (6U)	-	-	T1S4A5200GXGR6	T1S4A6000GXAR		
208/240Vin 208/240/120Vout Model - Hardwire Input w/ Output Receptacies (90)	-	-	-	T1S3A6000GXAR		
208/240Vin 208/240/120Vout Model - Input Line Cord w/ Output Receptacles (9U)	-	-	T1S5A5200GXAR9	T1S5A6000GXAR		
			1100/102000/10110	1100/100000.000		
Voltage	10	0.1/	208/240 V	208/240 V		
International Voltage	120 V 208V/220V/230V/240V		200/240 V	200/240 V		
Capacity (VA)	1000 VA	2000 VA	5200 VA	6000 VA		
Capacity (W)	900 W	1800 W	4680 W	5400 W		
Frequency	50 / 60 Hz Auto-Sensing					
Power Factor		Greater th				
OUTPUT						
Voltage	100V/110V	/115V/120V	200/208/220/230/240V (L-L) and Option with Transformer for 120V (L-N)			
International Voltage	208/1/220/1	/220///240//	with fransioning	(L-11)		
Frequency	208V/220V/230V/240V - 50 / 60 Hz Auto-Sensing					
Wave Form		Sinew				
Load Power Factor		0.9				
Efficiency AC/DC/AC	Greater t	than 86%	Greater than 89%			
Rated Output Current	8.3A	16.6A	21.6A (240V)	25A (240V)		
Rated Output Current (International)	4.3A	8.7A	21.0A (240V)	207 (2407)		
Overload Capacity	106-120% 30sec.; 121-150% 10sec.		125% for 1 min., 150% for 10 sec.			
Crest Factor	3:1					
BATTERY		0.				
	001/1 / 101/ 0411 0	70.1/1 / 10.1/0.1/1 0		10 (11		
DC Voltage		72 Vdc / 12V 9AH x 6		x 18 (1 batt. module)		
Backup Time	6 min (full load @ 0.9pf) 5 min (full load @ 0.9pf) Valve-Regulated Lead Acid; Flame Retardant (9.0 AH)					
Туре	Valv	e-Regulated Lead Acid;	Flame Retardant (9.07	AH)		
PHYSICAL	1					
Interface	RS-232 (1&2kVA) & USB Standard; Remote Contact (Standard for 5.2 & 6 kVA), RemotEye® 4, Environmental Monitoring Device (EMD) Options					
Input Line Cord	5-15P	5-20P	L6-30P	Hardwired or 6-50F		
Input Line Cord (International)		320		-		
Output - (Tower/Rackmount)	5-15R (6/6)	5-20R (12/4)	Hardwired or Re	ceptacle Options		
International Output - (Tower/Rackmount)	IEC C13 (4/4)	IEC C13 (8/4); C19 (1/1)		-		
ENVIRONMENT						
Operating Temperature	0° - 40°C (32° - 104°F)					
WARRANTY Three Years on Electronics; Two Yea	Three Years on Electronics; Two Years Full Replacement on Battery; See Toshiba Single-Phase Warranty Policy for Full Details					

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MODEL	100	1000+ SERIES				
Size	1500 VA	3000 VA	2400 VA			
Topology	True Online, Double-C	True Online, Double-Conversion, Input PF Correction w/ Isolation Transformer				
Certifications						
TOWER						
US 120V Model	UT1A1A015C6	UT1G2L024C6T				
International 230V Model	UT1E1E015C6 UT1E1E030C6					
RACK-MOUNT (2U)						
US 120V Model	UT1A1A015C6RKB2	UT1A1A030C6RKB2				
230V Model	UT1E1E015C6RKB2	UT1E1E030C6RKB2				
INPUT	OTTETEOROOOTTABE	011212000011132				
Voltage	120V (80 to :	144V, +20% to -33%)	Single-Phase 208/240 VAC			
		(Three-Wire Input/L-L, G)				
International Voltage	230V (161 to	230V (161 to 276V, +20% to -30%)				
Capacity (VA)	1500 VA	3000 VA	2400 VA			
Capacity (W)	1050 W	2100 W	1920 W			
Frequency						
Power Factor	Greater than 0.97					
OUTPUT						
Voltage	100/110					
International Voltage	208/2	120/200/208/220/230/240				
Frequency		50/60 Hz Auto-Sensing				
Wave Form		Sinewave				
Load Power Factor		0.70				
Efficiency AC/DC/AC	Grea	ter than 86%	Greater than 87%			
Rated Current	12.5 A	25 A	10 A (240 V)			
International Rated Current	6.5 A	13 A	10 A (240 V)			
Overload Capacity						
Crest Factor		3:1				
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)	6 Minutes (Full Load)	5 Minutes (Full Load)	11 Minutes (Full Load)			
Туре	Valve-Regulated Lead Acid; Flame Retardant (9.0 AH)					
PHYSICAL						
Interface	BS-232 & LISB Standard: Bem	ote Contact, RemotEye® II & Environmental Mo	nitoring Device (EMD) Options			
Dimensions of Tower (L x W x H)	16.5" x 6.0" x 9.4"	16.7" x 8.9" x 14.2"				
Dimensions of Rackmount			23.2" x 10.1" x 27.6"			
(L x W x H)	16.7" x 16.9" x 3.5"	25.0" x 16.9" x 3.5"				
Weight Tower	37.4 lbs.	72.6 lbs.	154.0 %-			
Weight Rackmount	37.6 lbs.	71.5 lbs.	— 154.3 lbs.			
Input Line Cord	5-15P	L5-30P				
Input Line Cord (International)		IEC 320	Hardwire or Optional L6-20P			
Output (Tower/Rackmount)	5-15R (6/6)	5-20R (12/4)	Hardwire/Optional (3) 5-20R Duple			
International Output (Tower/ Rackmount)	IEC C13 (4/4)	IEC 320 C13 (8/4); C19 (1/1)	or (2) L6-20R & (1) 5-20R Duplex			
ENVIRONMENT						
Operating Temperature		0° to 40°C (32° to 104°F)				
Altitude	2,000 meters max (no derating under 1,000 meters)					
Allilude	Three Years on Electronics; Two Years Full Replacement on Battery; See Toshiba Single-Phase Warranty Policy for Full Details					



> 1600XPi 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 K)	
Тороlоду	True Online, Double-Conversion; IGBT Power Factor Corrected Input; Internal Isolation Transformer							
Certifications	UL 1778, CUL, CE, FCC, RoHS							
TOWER								
1600XPi US Model	H3BG2L036C61T	H3BG2L060C61T	H3BG2L080C61T	H3BG2L100C61T	H3BG2L140C61T	H3BG2L180C61T	H3BG2L220C6	
INPUT								
Voltage	Single-Phase 2	08/240 VAC (Three-	Wire Input/L-L, G); 23	30 VAC (Three-Wire	Input/L, N, G), +10%	-30% (Based on Ty	pical 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-Sens	ing)			
Power Factor			Great	er than 0.95 For All I	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)							
/oltage Regulation	±3%; ±1% Typical							
Frequency	50/60 Hz; ±0.5 Hz/1.0 Hz/1.5 Hz (Factory or Authorized Service Center Selectable)							
/oltage THD	< 3% for Linear Load; 1% Typical							
Vave Form	Sinewaye							
Common Mode Noise	< 0.5 V RMS							
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	
Aaximum 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 3	0 seconds; Bypass N	/lode: 125% for 10 M	linutes, 1000% for O	ne Cycle	
Crest Factor	3:1							
BATTERY								
Battery Type			Valve-Regulated	Lead Acid; Flame Re	etardant (9.0 AH)			
	7 Minutes	7 Minutes	7 Minutes	5 Minutes	7 Minutes	5 Minutes	3 Minutes	
Backup Time (Fully Charged)	0.85 Pc	ower Factor; Approxi	mately 30% More Ru	ntime for Output Pov	ver Factor of 0.7 (Tri	ole Backup Time at 1	∕₂ Load)	
Recharge Time			24 Ho	ours (Full), 12 Hours	(90%)			
DC Link	144 VDC	216 VDC			288 VDC			
PHYSICAL								
nterface		RS-232	and Remote Contac	t Standard, RemotE	ye® 4 Standard for 1	1600XPi		
Demensions (L x W x H)	33" x 10" x 22.1"	34" x 10" x 27.5"						
Veight	253 lbs.	354 lbs.	466 lbs.		771 lbs.			
Shipping Weight	308 lbs.	414 lbs.	533 lbs. 839 lbs.					
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	1		8		
ENVIRONMENT			·					
Operating Temperature			0° to 40°C (O	perating); -20° to +4	0°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	1			Diotici Diotici Ior				
		r		annontal Manitaria	Daviaa (EMD) O-+-			
SNMP & WEB-Based Monitoring	RemotRadar™, Environmental Monitoring Device (EMD) Option							
Connectivity	Line Cord and Receptacle Option Three Years on Electronics; Two Years Full Replacement on Battery; See Toshiba Single-Phase Warranty Policy for Full Details							
WARRANTY	Three Years	on Electronics; Two	Years Full Replacem	ent on Battery; See	Toshiba Single-Phas	e Warranty Policy fo	r Full Details	



TOSHIBA POWER ELECTRONICS DIVISION:

• Uninterruptible Power Systems

- Rechargeable Batteries
- Power Conditioning Systems

• Remote Monitoring



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