

TOSHIBA
Leading Innovation >>>

**POWER
SYSTEMS**
Specialists, Inc.
(888) 305-1555
www.p-s-s.com info@p-s-s.com



- 3.6 to 22 KVA
- True On-Line, Double-Conversion UPS
- Input Power Factor > 0.95
- Input Current THD < 5%
- Wide Input Voltage Window +10% to -30% (Based on Typical 70% Load)
- Wide Input Frequency Window 45 to 65 Hz
- 0.85 Output Power Factor
- RemotEye 4 SNMP/Modbus Card
- Enhanced Features Include:
 - User-Friendly, Programmable Touch-Screen Display
 - Angled Terminal Block for Ease of Installation
 - RoHS and CE Certification
- Hot-Swappable Battery Packs & Cooling Fans
- Internal Isolation Transformer
- External Battery Connector
- Generator Compatible
- Crest Factor 3.0
- Three-Year Warranty

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.

1600XPi SERIES

UNINTERRUPTIBLE POWER SYSTEM >>>





> 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 KW)
Topology	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	H3BG2L220C61T
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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	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

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						
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
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	3:1						

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

PHYSICAL

Interface	RS-232 and Remote Contact Standard, RemotEye® 4 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.	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			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	RemotRadar™, Environmental Monitoring Device (EMD) 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