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Toshiba 1600XP Series
Uninterruptible Power Supplies
3.6 to 22 KVA Single-Phase
Performance Specifications

Enhanced Features:

- User-Friendly, Programmable
- Touch-Screen Display
- Angled Terminal Block for Ease of Installation
- RoHS and CE Certification

Standard Features:

- True On-Line, Double-Conversion UPS
- Input Power Factor > 0.95
- Input Current THD < 5%
- Wide Input Voltage Window +10% to -30%
- Wide Input Frequency Window 45 to 65 Hz
- 0.85 Output Power Factor
- Hot-Swappable Battery Packs & Cooling Fans
- Internal Isolation Transformer
- External Battery Connector
- Generator Compatible
- Crest Factor 3.0
- Three-Year Warranty

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3.6 to 22 KVA Specifications:

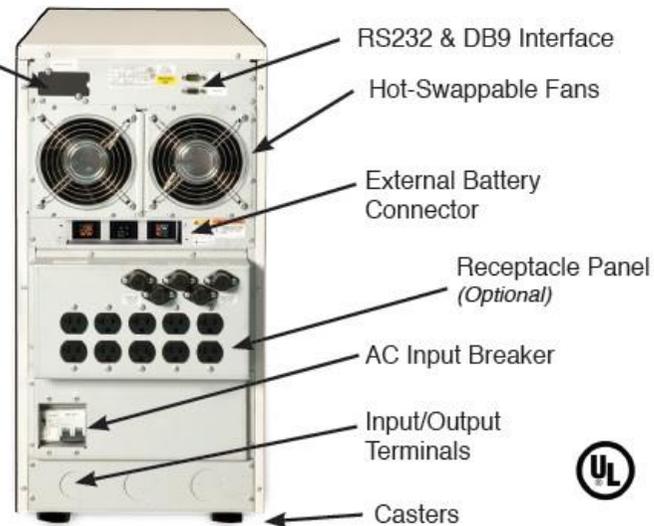
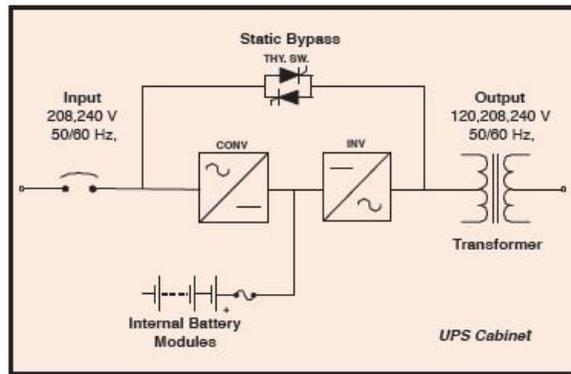
Capacity	3.6 KVA (3.1 KW)	6 KVA (5.1 KW)	8 KVA (6.8 KW)	10 KVA (8.5 KW)	14 KVA (11.9 KW)	18 KVA (15.3 KW)	22 KVA (18.7 KW)
Topology	True On-Line, Double Conversion; IGBT Power Factor Corrected Input; Internal Isolation Transformer (ALL)						
Certifications	UL 1778, CUL, CE, FCC Class A, IEEE 587, ANSI/C62.41, ISO 9001, ISO 14001, NEMA/PE1-1993, RoHs (ALL)						
Input Characteristics							
Input Voltage	Single-Phase 208/240 VAC (Three-Wire Input/L-L, G); 230 VAC (Three-Wire Input/L, N, G), +10% -30% (ALL)						
Input Frequency	45 to 65 Hz (Auto-Sensing) (ALL)						
Input Power Factor	> 0.95 For All Loads (ALL)						
Input Current THD	< 5% (Even for 100% Non-Linear Loads) (ALL)						
AC Input Breaker Rating	30 A	50 A	60 A	63 A	100 A	100 A	125 A
Battery Characteristics	Valve-Regulated Lead Acid; Flame Retardant (9.0 Amp Hr) (ALL)						
Battery Type		7 Minutes	7 Minutes	7 Minutes	5 Minutes	7 Minutes	3 Minutes
Backup Time (Fully Charged)	0.85 Power Factor; 77° F; ~30% More Runtime for Output Power Factor of 0.7 (Triple Backup Time at ½ Load) (ALL)						
Recharge Time	24 Hours (Full), 12 Hours (90%) (ALL)						
DC Link	144 VDC	216 VDC	288 VDC	288 VDC	288 VDC	288 VDC	288 VDC
Output Characteristics							
Output Voltage	Single-Phase 240/208/120 VAC (Four-Wire Output/L-L, N, G) 230 VAC (Three-Wire Output L, N, G) (ALL)						

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Output Voltage Regulation	±3%; ±1% Typical (ALL)						
Output Frequency	50/60 Hz; ±0.5 Hz/1.0 Hz/1.5 Hz (Factory or Authorized Service Center Selectable) (ALL)						
Output Voltage THD	< 3% for Linear Load; 1% Typical (ALL)						
Common Mode Noise	< 0.5 V RMS (ALL)						
Rated-Load Power Factor	0.85 (0.6 to 1.0) Lag (ALL)						
Rated Output Current @ 240 V	15 A	25 A	33.3 A	41.6 A	58 A	75A	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 (ALL)						
Environmental Characteristics							
Efficiency (AC-DC-AC)	> 85% (ALL)						
Temperature Range	0 to 40°C (Operating); -20° to +40°C (Storage) (ALL)						
Heat Generation (BTU/Hr)	1843	3071	4095	5118	7168	9213	11,260
Altitude	6600 Feet (2000 Meters) Maximum Without Derating (ALL)						
Audible Noise	< 60 DBA @ 1 Meter (ALL)						
Mechanical Design							
Enclosure	Steel Enclosure; Complies with NEMA 1 and UL Type-1 Standard (ALL)						
Enclosure Dimensions	22.1" x 10" x 33"	27.5" x 10" x 33"	28.4" x 13" x 34.9"	39.1" x 17.5" x			

(HxWxD)				36.1"	36.1"	36.1"	36.1"
Shipping Weight	280 lb/127 kg	346 lb/157 kg	476 lb/214 kg	476 lb/214 kg	784 lb/355 kg	784 lb/355 kg	835 lbs/379 kg
Battery Pack Size (HxWxD)	5" x 7.3" x 19" (Battery Pack Part # 51896-FS) (ALL)						
Battery Pack Quantity	Two	Three	Four	Four	Eight	Eight	Eight
Additional Key Features	Output Isolation Transformer, RS232 & Dry Contact Interface, Crest Factor of 3,						
	Angled Terminal Blocks for Easy Installation, Casters for Mobility (ALL)						
Options							
SNMP & WEB-Based Monitoring	RemotEye® III, RemotRadar™, & Environmental Monitoring Device (ALL)						
Matching Battery Cabinet	Consult IET (ALL)						
Internal/External Maintenance Bypass	Consult IET (ALL)						
Receptacle Panel & Line Cord	Consult IET (ALL)						
Warranty	Consult IET (ALL)						

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