

TOSHIBA 1600EP Series UPS 3.6-18 kVA



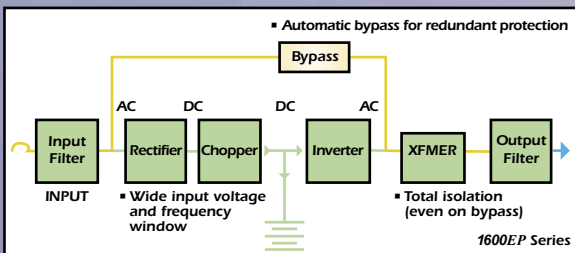
Front View
Hot Swappable Battery
Packs



Rear View
With Optional Receptacle
Panel

UPS SPECIFICATIONS

CAPACITY	3.6kVA (3.06kW)	6kVA (5.1kW)	8kVA (6.8kW)	10kVA (8.5kW)	14kVA (11.9kW)	18kVA (15.3kW)
General						
Topology	True On-line, output Isolation transformer, power factor corrected					
Certifications	UL 1778, CUL, FCC class A, IEEE 587, ANSI/C62.41, ISO 9001, NEMA/PEI-1993					
Input Characteristics						
Input Voltage	Single-phase 208/240 Vac (3 wire input/L-L, G), +10%-30%; 230 Vac (3 wire input/L, N, G)					
Input Frequency	45-65Hz (auto-sensing)					
Input Power Factor	> 0.95 for all loads					
Input Current THD	< 5%					
Battery Characteristics						
Battery Type	Valve Regulated Lead Acid, Flame Retardant (9.0 Amp Hr)					
Backup Time -- fully charged @ .85 power factor, 77° F	14 min.	7 min.	7 min.	5 min.	7 min.	5 min.
	Approx. 30% more runtime at an output pf of 0.7					
Recharge Time	24 hr. (full), 12 hr. (90%)					
DC Link	216 VDC	216 VDC	288 VDC	288 VDC	288 VDC	288 VDC
Output Characteristics						
Output Voltage	Single phase 240/208/120Vac (4 wire output/L-L, N, G) 230 Vac (3 wire output L, N, G)					
Output Voltage Regulation	+/- 3% Max., +/- 1% (Typ.)					
Output Frequency	+/- 0.5Hz/1 Hz/1.5 Hz (factory or authorized service center selectable only)					
Output Voltage THD	< 3% for linear load; 1% (Typ.); < 6% for non-linear load					
Common Mode Noise	< 0.5V Peak					
Rated Load Power Factor	0.85 (0.6-1.0) lag					
Efficiency (ac-dc-ac)	> than 85%					
Voltage Transient	< +/- 8% (load of 0 to 100%)					
Rated Output Current @ 240V	15A	25A	33.3A	42A	58A	75A
Max. Peak Output Current	45A	75A	100A	126A	174A	225A
Overload Capacity	150% for 10 seconds/125% for 10 minutes/100% for 1 cycle					
Operation Diagnostics						
Battery Check	Performed on start up, by schedule, on-demand (user configurable)					
Battery Lifetime	UPS calculates battery replacement time based upon battery ambient temperature (LCD display, LED and Audible Alarm)					
Internal Temperature	UPS gives indication of internal temperature, alarm when high temperature					
Event Data Storage	64-On-Line Mode, 32-Battery Backup, 16-Fault Condition					
Bypass Switch	Static switch <4msec, automatic with reverse transfer, manual					
User Interface						
RUN/STOP Disable	User can disable RUN/STOP; Selectable by keypad, also via network adapter option					
Remote ON/OFF	Standard, external terminal, also via SNMP option					
UPS Operation; 6 keys	RUN/STOP, SET/Monitor, shift/select, del/(page up), Reset (page.down)					
Power Connections	Hard Wire (Standard), snap-in receptacle panels (optional)					
Emergency Power Off	Standard (Terminal contacts only)					
Mechanical Design						
Enclosure	Enclosure of unit made from metal meeting NEMA 1 and UL Type 1					
Enclosure Dimensions	27.5"x10"x33"	27.5"x10"x33"	28.25"x13"x33.5"	28.25"x13"x33.5"	39.1"x17.5"x34.8"	39.1"x17.5"x34.8"
Shipping Weight	365 lbs./166 kg.	385 lbs./175 kg.	490 lbs./222 kg.	490 lbs./222 kg.	620 lbs./281 kg.	750 lbs./340 kg.
Battery Packs						
Battery Pack Size	5" H x 7.3" W x 18.2" D (6 batteries of NPX-35 per pack)					
Battery Pack Quantity	3	3	4	4	8	8



One Line Diagram

TOSHIBA

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3.6/6/8/10/14/18 kVA Single Phase

- LCD Display
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- Hot Swappable Batteries
- Isolation Transformer
- External Battery Interface
- Modular Receptacle Panels
- Internal SNMP
- 3-Year Warranty
- Now More Power



20% Extra Power

3 YEAR WARRANTY

Toshiba introduces an even smarter solution to power problems - the 1600EP Series UPS Uninterruptible Power Supply. From a name that is synonymous with quality, Toshiba offers a UPS with more monitoring capabilities, more flexibility and more features than previous models. This system combines true on-line technology, state of the art electronics and the Toshiba name to offer the most reliable UPS on the market.

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