

Toshiba International Corporation Uninterruptible Power Systems



1600EP Series 14kVA 240V In - 240V Out Tower Maintenance Bypass Solution

Toshiba's 1600EP Series is an on-line Uninterruptible Power Supply (UPS) systems provide continuous computer-grade ac power in a compact, high performance, and energy efficient unit. The UPS unit assures safe and reliable operation of critical office equipment. This can range from word processors and personal computers to mini-computers and local area networks. All units feature an audible alarm, which sounds if the battery voltage drops below standard during use. This is an additional aid to help in retaining the valuable office data banks. All units allow for computer interfacing.

This model is a Maintenance Bypass solution. Maintenance Bypass solution is a two breaker maintenance bypass panel. This is a 240V input and 240-output solution.

Product Specifications

INPUT	Voltage	240Vac
	Voltage Range	168V~264V (+10% to -30%)
	Frequency	50/60 Hz Auto Sensing
	Synchronization window	± 3Hz
	Power Factor	Greater than 0.95
	THD Current	Less than 5% at Full Load
OUTPUT	Topology	True On-Line, Double Conversion, Input PF Correction
	Voltage	240Vac
	Capacity (VA)	14000
	Capacity (W)	11900
	Voltage Regulation	± 3%
	Voltage Distortion	Less than 6% THD at Full Non-Linear Load. Less than 3% THD at full Linear Load.
	Step Load	± 8 % max from 100% to 0 % or from 0% to 100 % linear load
	Rated Current	58A

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	Max Peak Current	174A
	Overload Capacity	125% for 30 secs, 150% for 10 secs
	Crest Factor	3.0 at full load
	Frequency	50/60 Hz Auto Sensing
	Frequency Regulation	± 0.5Hz/± 1.0Hz/± 1.5Hz (authorized service center selectable only)
	Wave Form	Sine wave, Zero Transfer Time
	Load Power Factor	0.85
	Efficiency AC to AC	Greater than 83%
	Common Mode Noise	Less than 0.5 Vrms
BATTERY	DC Voltage	288V
	Backup Time	7 min (full load) 21 min (half load)
	Battery type	Energys NPX-35 Flame retardant Lead Acid 9Ah/12V Part #: 51896
	Number of batteries Pack	3 (Six batteries in each pack)
	Recharge time	<12 hours to 90%
PHYSICAL	Interface	RS-232, Dry Contact Connectivity, External Battery Connectivity
	Input	Hardwire Input
	Output	Hardwire Output
	Dimensions WxDxH (mm)	889x457x990
	Ship Dimensions WxDxH (mm)	990x610x1168
	Dimensions W x D x H (inch)	39x24x46
	Ship Dimensions WxDxH (inch)	35x18x39
	Weight kg (lb)	281 (620)
	Ship Weight kg (lb)	295 (650)
OPTION	External Matching Battery Cabinet	Single - 35 Mins, Double - 70 Mins. Max Two Cabinets. Part #: UE3-BC-1825
	Network Interface Card	RemotEye II - Part #: RMTI-INT-R25
	Environmental Monitoring Device	Part #: RMTI-EMD-HT
ENVIRONMENT	Operating Ambient Temperature	0 ~ 40°C (32 ~ 104°F)
	Recommended Temperature	+15°C ~ 25°C
	Storage Temperature	-20°C ~ 40°C
	Humidity	30-90%, Non-Condensing
	Audible Noise	50dB (A) maximum @ 1 meter from Front Panel
	Altitude	3300 ft (1,000 m) above sea level
CONFORMANCE	Regulatory Approvals	UL, CUL, ISO 9001, NEMA/PEI-1993

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WARRANTY	Three years on electronics
	Two years full replacement on battery (See Toshiba warranty policy for full details)