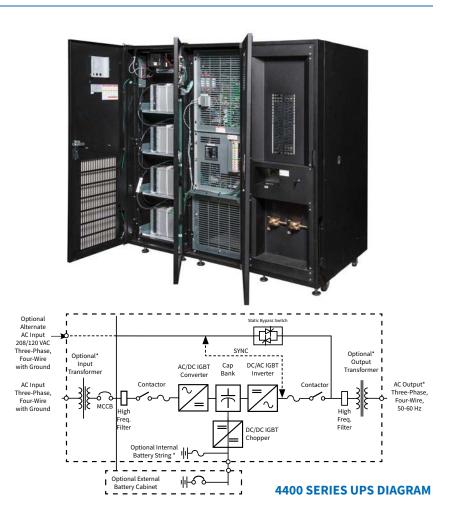


UNINTERRUPTIBLE POWER SYSTEMS 4400 Series



NEXT GENERATION TECHNOLOGY

The Toshiba 4400 Series Uninterruptible Power Supply (UPS) is the next-generation three-phase UPS. The double-conversion, all insulated-gate bipolar transistor (IGBT) 4400 Series UPS features a digitally controlled IGBT input rectifier; an intelligent, low harmonic, pulse-width modulation (PWM) IGBT output inverter; state-of-the art, IGBT battery isolation circuitry; and an easy to navigate local touchscreen interface. The small footprint and total front access mechanical design requires zero rear clearance and includes features such as top, bottom, and side cable entry, standard sized air filters included, and lockable keyed doors. Customization is available through a number of options, such as internal battery backup, internal maintenance bypass, internal transformers for specific voltage applications, and remote monitoring with the Toshiba RemotEye® 4 multi-protocol **UPS monitoring solution.**



Multi-Application Ready	UPS models available for any application; everything from internal energy storage, internal maintenance bypass, frequency conversion, Power Conditioning (no batteries) or any voltage / power distribution configuration, all in a sleek standardized line up.
Time-Tested Topology	Utilizes a Toshiba established true-online, double conversion all IGBT topology to meet the highest industry standards of reliability and power quality.
Over Design Protection	15 year design life components with long MTBF require minimal service for long lasting use in the toughest of environments.
Bad Utility Responsive, Tough Load Ready	Superior Design features Low Harmonic Distortion, wide input Voltage and frequency window, 100% Load Step and 100% unbalanced load capabilities, with up to 109% continuous overload without compromising voltage regulation.
Value-Generating Construction	Save on power and space with the 4400 Series, rugged industrial all front access, zero rear or side clearance, seismic ready design that minimizes footprint while maximizing power efficiency.
Toshiba End-to-End Solution	Configurable UPS options with wide range of run time Battery cabinets ensure the 4400 Series can represent a turnkey solution for a wide variety of applications.
Made in USA	Manufactured in Houston, Texas. Meets BAA and ARRA requirements.

OPTIONS & ACCESSORIES

BATTERY CABINETS

Matching battery cabinets with Valve-Regulated Lead Acid (VRLA) batteries provide uniform installation appearance with various run times. The Toshiba 4400 Series UPS works equally well with either VRLA or flooded-cell battery backup.

AUXILIARY CABINETS

Matching auxiliary cabinets are available for uniform installation appearance. Options include:

- Maintenance Bypass Switch (MBS)
- Subfeed Breakers
- Input Step Down Transformer
 Slim MBS
- Power Distribution
- **UPS MONITORING**

RemotEye[®] 4 offers real-time control, monitoring, and analysis of UPS operation. The quick and easy-to-use software can automatically initiate an orderly shutdown to connected servers to minimize any risk of data loss. RemotEye[®] 4 also features a firstever mobile website for monitoring UPS status updates on-the-go. Universal communications protocols compatible with RemotEye[®] 4 include:

- Modbus TCP & RTU
- BACnet IP & MSTP
- SNMP
- IPv6 Compatible
- HTTP/HTTPS

EMERGENCY LIGHTING (UL924)

4400 Series UPS Systems may be ordered in a pre-designed and certified configuration to meet the rigorous UL924 Standard for emergency lighting applications. The end-to-end solution includes the 90-minute runtime and battery test function required by the UL924 Standard. The 4400 Series' centralized approach for emergency lighting is ideal for a world moving towards the utilization of LED lights which demand the power quality that only a UPS system like the 4400 Series can provide. Optional matching 4400 Series Distribution cabinets are available for multi branch circuitry of an Emergency Lighting System.





3THREE YEAR WARRANTY

MODEL NUMBER	4400X3X150XA	4400X3X200XA	4400X3X250XA	4400X3X300XA	4400X3X500XA	4400X3X800XA	4400F3F10KX	
Capacity	15 kVA (13.5 kW)	20 kVA (18 kW)	25 kVA (22.5 kW)	30 kVA (27 kW)	50 kVA (45 kW)	80 kVA (72 kW)	100 kVA (90 kW)	
opology			True On-Line	, Double-Conversion, All-IGE	T Technology			
NPUT								
oltage (Standard)			208/120V Three-Ph	hase, Four-Wire + Ground Si	ngle or Dual Input*			
			-15% to +10% (With	out Using Battery)**			-10% to +10% (Withou Using Battery)**	
Power Factor				>0.98			Using Dattery)	
urrent THD				<5% at 100% Load				
requency								
DUTPUT				1 P P				
oltage (Standard)	208/120V Three-Phase, Four-Wire + Ground Output***							
requency	50/60 Hz, +0.1% Auto-Sensing Standard. (50/60 Hz Selectable, for use as Frequency Converter)							
oltage Regulation	+/-2% at 0-100% Balanced Load							
ower Factor	0.9 Lagging							
nverter Overload Capacity	104% Con 105-125% fo 109% Continuous, 110-124% for 6 Minutes, 125-149% for 90 Seconds, 150% for 30 Seconds; 225-149% Seconds for 30 Seconds							
Bypass Overload Capacity			125% for 10 Mir	nutes, 150% for 2 Minutes, 10	000% for 1 Cycle			
BATTERY								
	288 VDC							
ipple Voltage	<0.5% DC							
NVIRONMENT								
emperature Range				32° to 104°F (0° to 40°C)				
elative Humidity			1	5% to 95% Non-Condensing	5	1	1	
eat Rejection	4556 BTUs/Hour	6074 BTUs/Hour	7395 BTUs/Hour	9111 BTUs/Hour	15,286 BTUs/Hour	24,297 BTUs/Hour	30,372 BTUs/Hour	
ull-Load Efficiency	91.0%							
5% Load Efficiency	88.0%							
ltitude	3300 ft. (1000 m) Maximum Without Derating							
	Airflow Front-to-Top, Front-Located Filters Included							
udible Noise			<65dBA @	1 m Typical			<70dBA @ 1 m Typica	
DIMENSIONS								
	705 (000 L)) in. (D) x 65.06 in. (H)	700 11 (245 1)		in. (W) x 37.20 in. (D) x 73.80		
Veight ****	725 lbs. (329 kg)	730 lbs. (331 kg)	750 lbs. (340 kg)	760 lbs. (345 kg)	965 lbs. (438 kg)	1550 lbs. (612 kg)	1650 lbs. (748 kg)	
COLOR								
	Powder Coat, DuPont O'Brien Black							
IONITORING								
		Touchscreen Operator Int	terface, UPS Status N/O Dry	Contacts, RS232C Interface	(Optional RemotEye [®] 4 Inte	lligent Monitoring System)		
OPTIONS								
	Internal Batteries (15-50kVA), Internal Isolation & Voltage Conversion Transformers, Dual-Input Feed, RemotEye® 4 Intelligent Monitoring System, Remote Status Alarm Panel, External Matching & Non-Matching Battery Cabinets, Matching MBS/Transformer/Distribution Cabinets. UL924 Certified Emergency Lighting System (15-20kVA), Internal 3-Breaker MBS (15-30kVA)							
STANDARDS								
	UL 1778, CUL, ISO9001, ISO14001:2004, ANSI C62.41 (IEEE 587), NEMA/PET-1993, CE, IBC, & CBC (OSHPD) ISO14001:2 ANSI C62.41 (IE						UL 1778, CUL, ISO900 ISO14001:2004, ANSI C62.41 (IEEE 58 NEMA/PET-1993	
WARRANTY								
		3-Year On-Si	ite Warranty; 10+ Year Servic	e Agreements Available; See	e Toshiba Warranty Policy fo	or Full Details		
SERVICE								
			24-Hour, 365	5-Day Technical Support: 1-8	377-867-8773			
* For loads less than 50% of total UPS c ** Auto Transformer Options for Output *** Unit Weight Not Including Internal E	output capacity, input voltage within voltage Conversion. 15-50kVA Unit Battery and Transformers	in -30% to +10% of Standard value its can support <u>2 internal transform</u>	e is sufficient for operation ners. 80kVA Units can support 1 int	ternal transformer. Not available fo	r 100kVA			
* Isolation and Auto Transformer Option ** For loads less than 50% of total UPS o ** Auto Transformer Options for Output *** Unit Weight Not Including Internal E Specifications subject to change without © 2020 Toshiba International Corporation	utput capacity, input voltage withi : Voltage Conversion. 15-50kVA Unit dattery and Transformers t notice.	in -30% to +10% of Standard value its can support <u>2 internal transform</u>	I transformers. 80kVA Units can sup e is sufficient for operation	pport 1 internal transformer. Not av	vailable for 100kVA r 100kVA			

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TOSHIBA POWER ELECTRONICS

Uninterruptible Power Systems • SCiB[™] Lithium Ion Batteries • Energy Management Systems Remote Monitoring • High Power Chargers • Containerized Solutions PDU • RPP • Server Rack Enclosures



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