

# TOSHIBA

Leading Innovation >>>



4400 SERIES >>>  
UNINTERRUPTIBLE POWER SYSTEMS

# 4400 SERIES

## NEXT GENERATION TECHNOLOGY.



The Toshiba 4400 Series uninterruptible power system (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) output, state-of-the-art electronic 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/or side cable entry, standard sized air filter provisions, and lockable keyed doors. Customization is available through a number of options, such as internal battery backup, internal transformers for specific voltage applications, and remote monitoring with the Toshiba RemotEye® 4 multi-protocol UPS monitoring solution.

- 0.9 Power Factor
- High Efficiency
- Small Footprint
- Easily Installed

MODEL	Model Number	4400X3X150XA	4400X3X200XA	4400X3X250XA	4400X3X300XA	4400X3X500XA	4400X3X800XA	4400F3F10KXA
	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)
	Topology	True On-Line, Double-Conversion, All-IGBT Technology						
INPUT	Voltage (Standard)	208/120V Three-Phase, Four-Wire + Ground Single or Dual Input*						
	Voltage Range	-15% to +10% (Without Using Battery)**						-10% to +10% (Without Using Battery)**
	Power Factor	>0.98						
	Current THD	<5% at 100% Load						
	Frequency	50 +/- 5 Hz; 60 +/- 5 Hz						
OUTPUT	Voltage (Standard)	208/120V Three-Phase, Four-Wire + Ground Output***						
	Frequency	50/60 Hz, +0.1% Auto-Sensing Standard. (50/60 Hz Selectable, for use as Frequency Converter)						
	Voltage Regulation	+/-2% at 0-100% Balanced Load						
	Power Factor	0.9 Lagging						
	Inverter Overload Capacity	109% Continuous, 110-124% for 6 Minutes, 125-149% for 90 Seconds, 150% for 30 Seconds;						104% Continuous, 105-125% for 6 Minutes, 125-149% for 60 Seconds, 150% for 30 Seconds
	Bypass Overload Capacity	125% for 10 Minutes, 150% for 2 Minutes, 1000% for 1 Cycle						
BATTERY	DC Link	288 VDC						
	Ripple Voltage	< 0.5% DC						
ENVIRONMENT	Temperature Range	32° to 104°F (0° to 40°C)						
	Relative Humidity	5% to 95% Non-Condensing						
	Heat 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
	Full-Load Efficiency	91.0%						
	25% Load Efficiency	88.0%						
	Altitude	3300 ft. (1000 m) Maximum Without Derating						
	Air Filtration	Airflow Top-to-Front with Front-Located Filters Included						
	Audible Noise	<65dBA @ 1 m Typical						<70dBA @ 1 m Typical
DIMENSIONS	Dimensions	20.12 in. (W) x 37.40 in. (D) x 65.06 in. (H)				32.10 in. (W) x 37.20 in. (D) x 73.80 in. (H)		
	Weight****	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							
MONITORING	Touchscreen Operator Interface, UPS Status N/O Dry Contacts, RS232C Interface (Optional RemotEye® 4 Intelligent Monitoring System)							
OPTIONS	Internal Batteries (15-50kVA), Internal Transformers, Dual-Input Feed, RemotEye® 4 Intelligent Monitoring System, Remote Status Alarm Panel, External Matching & Non-Matching Battery Cabinets, Matching MBS/Transformer/Distribution Cabinets							
STANDARDS	UL 1778, CUL, ISO9001, ISO14001:2004, ANSI C62.41 (IEEE 587), NEMA/PET-1993, CE, IBC, & CBC (OSHDP)						UL 1778, CUL, ISO9001, ISO14001:2004, ANSI C62.41 (IEEE 587), NEMA/PET-1993	
WARRANTY	3-Year On-Site Warranty; 5-Year Warranty Available; See Toshiba Warranty Policy for Full Details							
SERVICE	24-Hour, 365-Day Technical Support: 1-877-867-8773							

\*Isolation and Auto Transformer Options for Input Voltage Conversion. 15-50kVA Units can support 2 internal transformers. 80kVA Units can support 1 internal transformer. Not available for 100kVA.

\*\*For loads less than 50% of total UPS output capacity, input voltage within -30% to +10% of Standard value is sufficient for operation.

\*\*\*Auto Transformer Options for Output Voltage Conversion. 15-50kVA Units can support 2 internal transformers.

80kVA Units can support 1 internal transformer. Not available for 100kVA.

\*\*\*\*Unit Weight Not Including Internal Battery and Transformers.

Specifications subject to change without notice.

## > 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), power distribution, and subfeed breakers. Options include Maintenance Bypass Switch (MBS), Power Distribution, Subfeed Breakers, Input Step Down Transformer, and Slim MBS.

### 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 first-ever mobile website for monitoring UPS status updates on-the-go. Universal communications protocols compatible with RemotEye® 4 include Modbus TCP & RTU, BACnet IP & MSTP, HTTP/HTTPS, and SNMP. Compatibility with IPv6 also is included.



*Slim MBS*

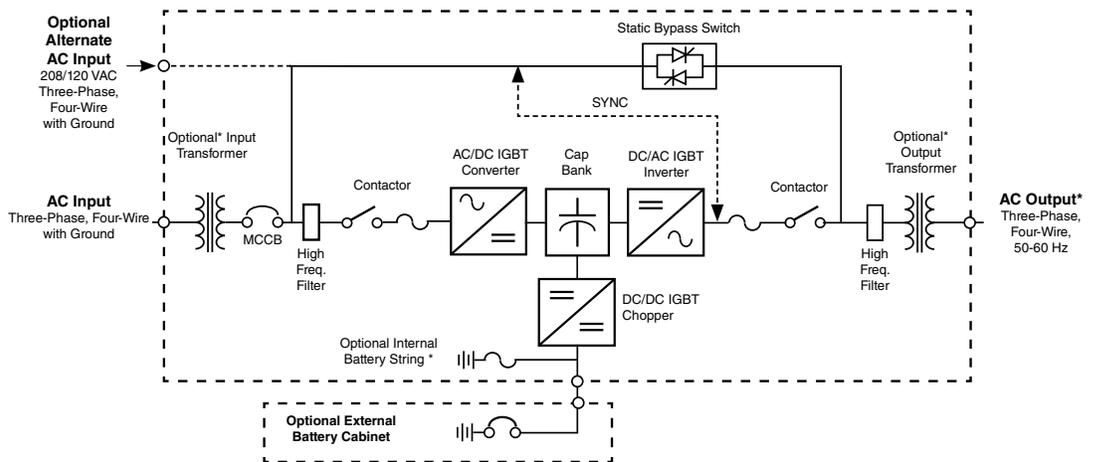


*Battery Cabinet*



*50-100 kVA UPS*

**4400 Series UPS Diagram**



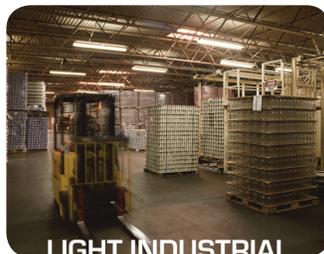
**SCAN FOR OSHPD TESTING VIDEO**



**TELECOMMUNICATIONS**



**DATACENTERS & IT**



**LIGHT INDUSTRIAL**



**COMMERCIAL & RETAIL**

**TOSHIBA POWER ELECTRONICS DIVISION:**

- Uninterruptible Power Systems
- Rechargeable Batteries
- Power Conditioning Systems
- Remote Monitoring

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