

## NEXT GENERATION TECHNOLOGY.

Toshiba International Corporation provides a full range of Uninterruptible Power Systems (UPS) solutions for business, IT, industrial, healthcare and broadcasting applications.

All Toshiba UPSs are true on-line, double-conversion units, providing conditioned power during normal operation. All UPSs come with a full three-year warranty backed by Toshiba's 24/7 technical support. Extended warranty and maintenance programs are available on all UPS products. For more information call Service Sales at 877-867-8773.

Toshiba UPSs are available in a range of sizes:

- Single-Phase: 1 to 22 KVA
- Three-Phase: 15 to 750 KVA

All Toshiba UPSs are equipped for optional remote-monitoring via a standard RS232 communications port or a dry contact

interface. The RS232 port can be driven either by the Toshiba Industrial Bus or RemotEye® II & III network interface card.

Modular three-phase units can be combined in redundant/parallel combinations of up to eight units total, without additional control circuitry.

Power distribution options include maintenance bypass panels, power distribution units (PDU), and remote power panels (RPP).

Single- & Three-Phase models are available with OSHPD Special Seismic Certification Pre-approval (OSP).

Toshiba UPSs offer reliable backup energy storage via batteries for all models (VLRA or flooded) and flywheels for some three-phase models. Contact your Toshiba representative for additional details.

### > APPLICATIONS



**Data Centers**



**Healthcare**



**Broadcast**



**Manufacturing**



**Banking**



**Call Centers**

# UPS SOLUTIONS

**TOSHIBA INDUSTRIAL PRODUCTS:**

- Uninterruptible Power Systems
- Adjustable Speed Drives
- Motors
- Motor Controls
- Instrumentation & PLCs

**TOSHIBA**  
Leading Innovation >>>  
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Leading Innovation >>>



ALL PRODUCTS BROCHURE

UNINTERRUPTIBLE POWER SYSTEMS



## SINGLE-PHASE STAND ALONE UPS



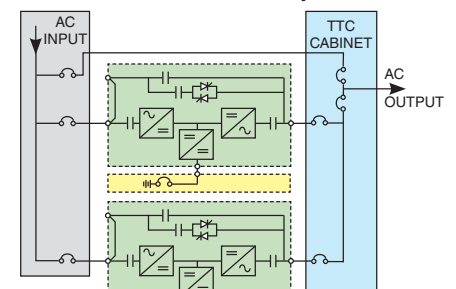
UPS Series	1000 Series		1000+ Series	1600XP Series
Capacity KVA	1 to 3	6	2.4	3.6 to 22
Input Voltage	120 (230**)	208/240	208/240	208/240 (230**)
Frequency Hz	50/60 (Auto-Sensing)		50/60 (Auto-Sensing)	45 to 65 (Auto-Sensing)
Output Voltage	120 (230**)	208/240	240/208/120	240/208/120 (230**)
Output Power Factor	0.7		0.8	0.85
Battery Backup Int/Ext*	Y/Y	N/Y	Y/N	Y/Y
Maintenance Bypass Switch	N		N	Optional Internal/External MBS
Parallel Operation	N		N	N
Features	<ul style="list-style-type: none"> <li>• Tower &amp; Rack-Mount Form Factor available in 1 to 3 KVA</li> <li>• Available in Domestic 120 V In/Out &amp; International 230 V In/Out</li> <li>• Small Solution Ideal for Server Rack, Small Office, Business Office Applications</li> <li>• Optional Network Interface Card for Remote Monitoring</li> <li>• Optional Battery Cabinet for Extended Backup Time</li> <li>• Hot-Swappable Battery</li> <li>• Frequency Converter 50 to 60Hz or 60 to 50Hz Operation</li> <li>• Packaged together with Toshiba UPSMON Software that provides UPS Monitoring, E-mail Notifications, Graceful Shutdowns, and many more features</li> <li>• Cold Start Feature for when utility power is not available</li> <li>• Intelligent Charger with Rapid Charge in only 4.0 hours to 90%</li> <li>• Wide Input Voltage Window</li> <li>• Three-Year Warranty (Depot)</li> </ul>		<ul style="list-style-type: none"> <li>• Available in Tower Form Factor</li> <li>• Industrial and Medical Applications</li> <li>• Optional Network Interface Card for Remote Monitoring</li> <li>• Internal Output Isolation Transformer for Common Mode Noise Protection (Even in Bypass Mode)</li> <li>• Hot-Swappable Battery</li> <li>• Frequency Converter 50 to 60Hz or 60 to 50Hz Operation</li> <li>• Packaged together with Toshiba UPSMON Software that provides UPS Monitoring, E-mail Notifications, Graceful Shutdowns, and many more features</li> <li>• Cold Start Feature for when utility power is not available</li> <li>• Intelligent Charger with Rapid Charge in only 4.0 hours to 90%</li> <li>• Wide Input Voltage Window</li> <li>• Three-Year Warranty (Depot)</li> </ul>	<ul style="list-style-type: none"> <li>• Available in Tower Form Factor</li> <li>• Internal Output Isolation Transformer for Common Mode Noise Protection</li> <li>• Optional Network Interface Card for Remote Monitoring</li> <li>• Front-End IGBT Design Allows Low Input Harmonics</li> <li>• Wide Frequency Range</li> <li>• Frequency Converter 50 to 60Hz or 60 to 50Hz Operation</li> <li>• Hot-Swappable Batteries</li> <li>• Optional External Battery Cabinets for Extended Backup Time</li> <li>• Low Input THD Allows One-to-One Sizing When Using Generator</li> <li>• Custom Receptacles Panels</li> <li>• Digital LCD Touchscreen</li> <li>• Wide Input Voltage Window</li> <li>• Three-Year Onsite Warranty CUL, RoHS, and CE Certification.</li> </ul>

\*Int - Internal Battery Backup  
 Ext - External Battery Backup  
 \*\*International Model

# THREE-PHASE STAND ALONE UPS



4200FA Series	4300 Series	G8000 Series	G9000 Series	
15 to 80	30 to 50	80 to 300	80 to 225	300 to 750
208 Four-Wire	208 to 600 Three-Phase/ Four-Wire	480 Three-Phase/Three-Wire	480 Three-Phase/Three-Wire	
50/60	50/60	50/60	60	
208 Three-Phase/ Four-Wire	208 Three-Phase/ Four-Wire	480/277 Three-Phase/ Four-Wire	480 Three-Phase/Three-Wire	
0.8	0.9	1.0	0.9	1.0
Y/Y	N/Y	N/Y	N/Y	
Internal/External Model Specific	Optional External	Optional External	Optional External	
N	N	N	Y	Y
<ul style="list-style-type: none"> <li>• Available in Two Configurations:</li> <li>• Base: Internal Backup Batteries, Optional Backup Battery Cabinet</li> <li>• Premium: Built-In Isolation Transformer, Optional Backup Battery Cabinet</li> <li>• Global Voltage Options: 120/208/240/300/380/480/600 &amp; More</li> <li>• Voltage Configuration</li> <li>• Wide Frequency Range, Can Operate as 50/60 Hz Frequency Converter</li> <li>• Front-End IGBT Design Allows Low Input Harmonics</li> <li>• Handle 100% Load Step Without Utilizing Batteries</li> <li>• Low Input THD Allows One to-One Sizing When Using Generator</li> <li>• Three-Year Onsite Warranty</li> </ul>	<ul style="list-style-type: none"> <li>• Touch Screen Interface for Local Control.</li> <li>• Optional Line-up-and-match Battery, MBS, and Transformer Cabinet with Power Distribution Panel Option</li> <li>• Global Voltage Options: 120/208/240/300/380/480/600 &amp; More</li> <li>• Wide Frequency Input Range, Can Function as 50/60 Hz Frequency Converter</li> <li>• Handle 100% Load Step Without Utilizing Batteries</li> <li>• Front-End IGBT Design Allows Low Input Harmonics</li> <li>• Low Input THD Allows One to-One Sizing When Using Generator</li> <li>• Iso-Redundant Models Available</li> <li>• Three-Year Onsite Warranty</li> </ul>	<ul style="list-style-type: none"> <li>• Available in: 100, 150, 225, &amp; 300 KVA 480 V, 60 Hz - 125, 180, &amp; 250 KVA, 380V, 50 Hz</li> <li>• Three-Phase, Three-Wire In &amp; Three- or Four-Wire Out</li> <li>• Up to 94% Efficient</li> <li>• Unity Power Factor Output Delivers 20% More Power than Comparable Units</li> <li>• Low Input THD Allows 1.1:1 Generator Sizing</li> <li>• High Crest Factor Allows Use in High Current Inrush Applications such as MRI, CT Scanners, &amp; Broadcast Transmitters</li> <li>• Works with Battery &amp; Flywheel Energy Storage Devices</li> <li>• Three-Year Onsite Warranty</li> </ul>	<ul style="list-style-type: none"> <li>• Available in 80, 100, 160, 225, 300, 500 &amp; 750 KVA Modules with Parallel Ability</li> <li>• Load Capacity 80 to 6000 KVA with Tie Cabinet</li> <li>• Three-Phase, Three-Wire In &amp; Three-Wire Out</li> <li>• All IGBT AC-DC-AC Conversion Delivers Industry Leading Efficiency of Up to 97% at 100% Load with &lt; 3% THD</li> <li>• Parallel Up to 8 Modules Without Additional Tie Cabinet Control Circuitry</li> <li>• Three-Year Onsite Warranty</li> </ul>	



G9000 Parallel Module System



## > REMOTE MONITORING SUPPORT



### REMOTEEYE® II & III

The RemotEye II & III network interface card offers remote real-time control, monitoring and analysis of UPS operation via HTTP (web browser) and SNMP. This includes e-mail alerts, SNMP Traps, graceful shutdown on protected servers/computers, and many more features.



### REMOTRADAR®

The RemotRadar application software enables global, real-time monitoring of up to 5000 RemotEye II & III devices and the standalone Remote-Ds combined. The Graphical User Interface can be switched between list and graphical map presentation for easier navigation. In addition, it can send cellular text messages.



### ENVIRONMENTAL MONITORING DEVICE (EMD)

The optional EMD module is an add-on to the Remote-D and RemotEye II & III. It allows for remote monitoring of the ambient temperature and humidity. The two additional user defined contacts can be used with any device that provides normally open or closed results, or active high or low signal results.



### REMOTE-D®

The Remote-D is an intelligent, single-phase Power Distribution Unit. The front display shows the power status, current level, and remote control status for each outlet which can be monitored, controlled and configured over HTTP (web browser) or SNMP. Configurations include programming on/off outlets for specific events, e-mail alerts and more.



### PROTONODE

The Industrial Bus module allows for reliable real-time monitoring and control of the UPS. Also since it works with the most commonly used industrial protocols SNMP, Modbus TCP/RTU, BACnet IP/MSTP, AB EtherNet/IP, and Metasys N2 it can be easily integrated into a custom Building Management System. The ProtoNode also comes equipped for RS-232, RS-485, and Ethernet connectors.

## > OTHER ACCESSORIES



### MAINTENANCE BYPASS SWITCH (MBS) PANEL

Maintenance bypass switch panels in either floor or wall mounting configurations are available in two-, three-, and four-breaker configurations with optional kirk-key interlock systems and solenoid release.



### BATTERY CABINETS & RACKS

Matching battery cabinets provide uniform appearance to installation. Toshiba UPSs work equally well with either Valve-Regulated Lead Acid or flooded-cell battery backup.



### POWER DISTRIBUTION UNIT/REMOTE POWER PANEL OPTIONS

Optional Power Distribution Units with internal 480/208 transformers and Remote Power Panels are available in a range of sizes and capacities for the three-phase systems.



### FLYWHEEL for G9000 SERIES

Flywheels are a green alternative and/or supplement to traditional batteries. They provide safe, reliable energy storage in a robust, lightweight, and small-footprint package with a low life-cycle cost.

### TOSHIBA DISTRIBUTION CABINET

The TDC provides single-operation G9000 UPS's with external maintenance bypass, step-down output transformer and sub-feed breaker and/or 42-pole panel distribution in one compact, dimensionally-matched and color-matched cabinet.

### TOSHIBA TIE CABINET

The tie cabinet synchronizes and parallels the output of G9000 UPSs to increase capacity up to 6000 KVA. Each dimensionally-matched and color-matched tie cabinet has a main output breaker and a bypass breaker, and one output isolation breaker for each UPS unit attached to it.