

## UNINTERRUPTIBLE POWER SYSTEMS



**3** Year  
Warranty

# G9000 Series

80/100/160/225 KVA UPS



**96.5%**  
Efficiency

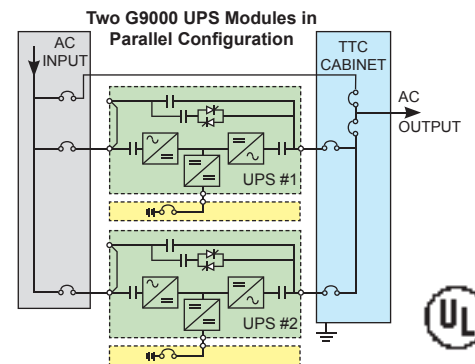
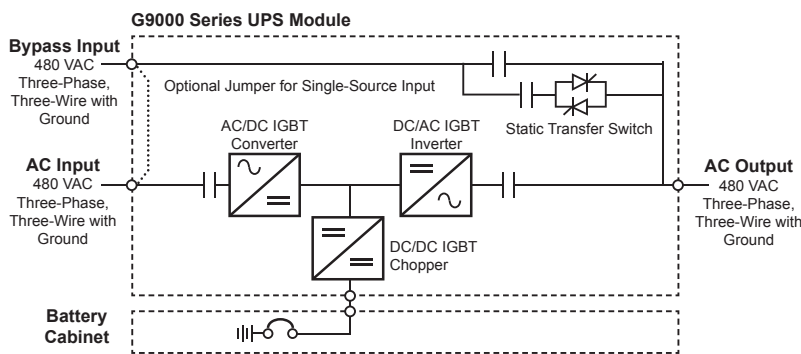


- Next-Generation IGBT Technology
- True On-Line, Double-Conversion UPS
- Parallel up to Four Units
- Input Power Factor > 0.99
- Input Current THD < 3%
- Output Power Factor 0.9
- 100% Unbalanced Load Capability
- Wide Input Voltage Range +15%, -20% (Without Utilizing Batteries)
- High Efficiency for Lower Operational Cost
- Smallest Footprint and Highest Power Density in Industry
- Electronic Battery Isolation for Battery Longevity
- Generator-Friendly Design and Compatibility
- Complete Front-Access for Installation, Operation, and Service
- Handles Leading Power Factor Loads (Without Derating)
- SNMP/Web-Based Monitoring
- Three-Year Warranty for Lower Cost of Ownership

**Reliability in motion<sup>®</sup>**

# G9000 Series 80/100/160/225 KVA UPS

| Model Number |  | T90S3S08KS6XSN  | T90S3S10KS6XSN    | T90S3S16KS6XSN                                  | T90S3S22KS6XSN     |
|--------------|--|---|-------------------|---|--------------------|
| Capacity     | KVA/KW   | 80/72   | 100/90            | 160/144   | 225/202.5          |
| Topology     | True On-Line, Double Conversion, Advanced Multi-Level IGBT Technology  |   |                   |   |                    |
| Input        | Voltage  | 480 V, Three-Phase, Three-Wire + Ground/Bypass Input, 480 V, Three-Phase, Three-Wire + Ground |                   |   |                    |
|              | Voltage Range  | 480 V, -20% to +15% (384 to 552 V Without Utilizing Battery)                                  |                   |   |                    |
|              | Power Factor   | Greater than 0.99   |                   |   |                    |
|              | Current THD  | <3% at 100% Load (No Input Filter Required)   |                   |   |                    |
|              | Frequency  | 60 Hz (± 10%)   |                   |   |                    |
| Output       | Voltage  | 480 V, Three-Phase, Three-Wire + Ground   |                   |   |                    |
|              | Frequency  | 60 Hz, ±0.01% (In Free-Running Mode)  |                   |   |                    |
|              | Voltage Regulation   | ±1.0% (0.5% Typical)  |                   |   |                    |
|              | Power Factor   | 0.9 Lagging to 0.95 Leading   |                   |   |                    |
|              | Power Factor Range   | 0.9 to 1.0 Lagging  |                   |   |                    |
|              | Voltage THD  | <2% for Linear Load, <5% for Non-Linear Load  |                   |   |                    |
|              | Overload (Inverter)  | 125% for 2 Minutes; 150% for 60 Seconds   |                   |   |                    |
|              | Overload (Bypass)  | 1000% for One Cycle   |                   |   |                    |
| Battery      | DC Link  | 480 VDC   |                   |   |                    |
|              | Ripple Voltage   | ±0.23%  |                   |   | ±0.29%             |
| Environment  | Temperature Range  | 32° to 104°F (0° to 40°C)   |                   |   |                    |
|              | Relative Humidity  | 5% to 95% Non-Condensing  |                   |   |                    |
|              | Heat Rejection   | 10,771 BTUs/Hour  | 13,463 BTUs/Hour  | 17,821 BTUs/Hour                                | 25,060 BTUs/Hour   |
|              | Efficiency (Full-Load)   | 95.8%   | 95.8%             | 96.5%   | 96.5%              |
|              | Efficiency (20% Load)  | 92.5%   | 92.5%             | 94.7%   | 94.9%              |
|              | Altitude   | 7380 Feet Maximum Without Derating (2250 Meters)  |                   |   |                    |
| Dimensions   | Dimensions (W x D x H)   | 27.6 x 32.8 x 80.6 in.<br>(700 x 832 x 2047 mm)   |                   | 35.4 x 32.8 x 80.6 in.<br>(900 x 832 x 2047 mm) |                    |
|              | Weight   | 855 lbs. (388 kg)   | 855 lbs. (388 kg) | 1160 lbs. (526 kg)                              | 1230 lbs. (558 kg) |
| Features     | Digital Signal Processor (DSP) Control, Fully Digital IGBT Converter & Inverter, High Efficiency Over Wide Load Range, Transformer-Less Design, N+1 and N+N (Up to Four in Parallel) Capability, Dual-Input Feed, Electronic Battery Isolation, RS232 and Dry Contact Interface, Small Footprint, Lightweight Design |   |                   |   |                    |
| Standards    | UL 1778, CUL, ISO9001, ISO14001, ANSI C62.41 (IEEE 587), FCC Class A, Article 47, Part 15.B  |   |                   |   |                    |
| Warranty     | Three Years Onsite (Optional Two Year Extended Warranty)<br>See Toshiba Warranty Policy for Full Details   |   |                   |   |                    |
| Service      | 24-Hour, 365-Day Technical Support 1-877-867-8773  |   |                   |   |                    |



**UPS    ADJUSTABLE SPEED DRIVES    MOTORS    CONTROLS    INSTRUMENTATION    PLC**

# TOSHIBA

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