

# TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

## UNINTERRUPTIBLE POWER SYSTEMS

# G2020 Series

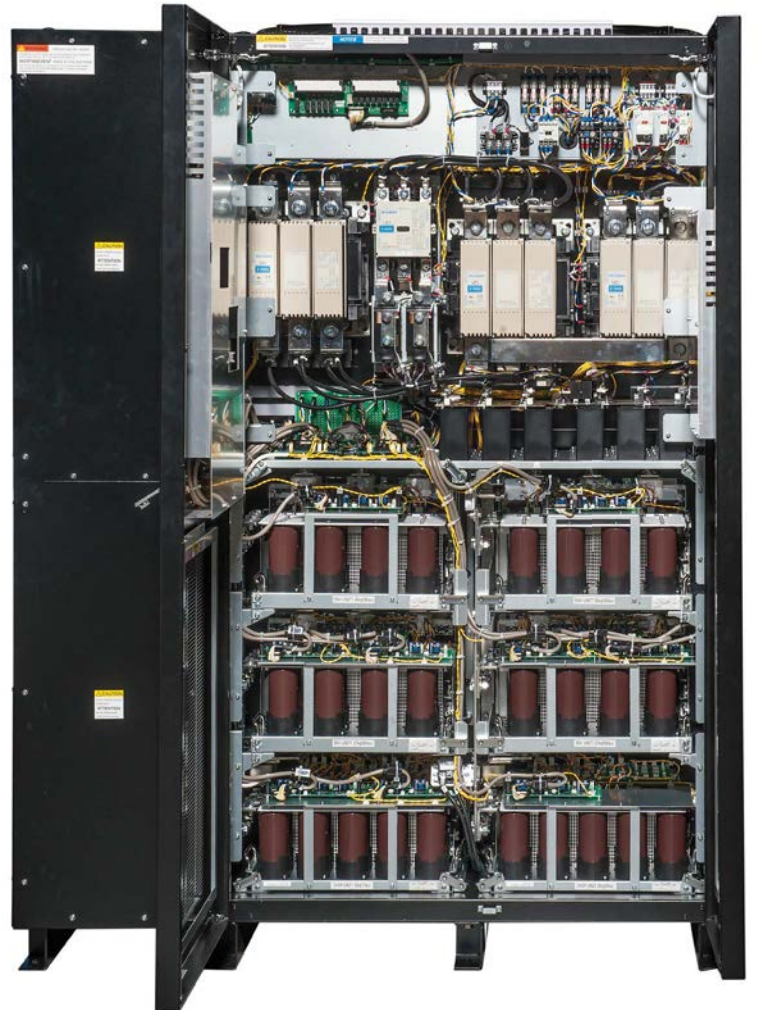


**POWER  
ELECTRONICS**

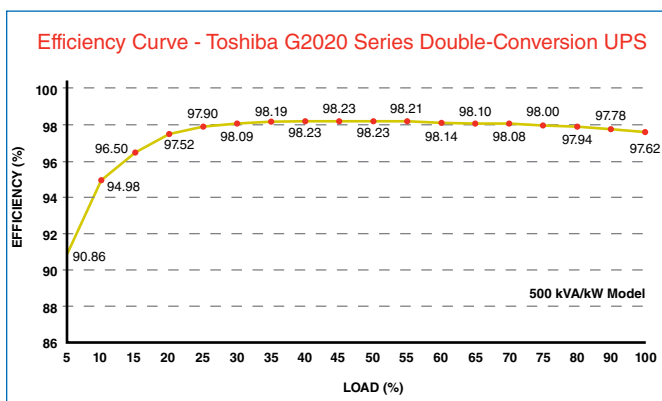
# SILICON-CARBIDE TECHNOLOGY FOR ULTRA-HIGH EFFICIENCY

## One of the World's First to Feature Silicon Carbide (SiC) Technology

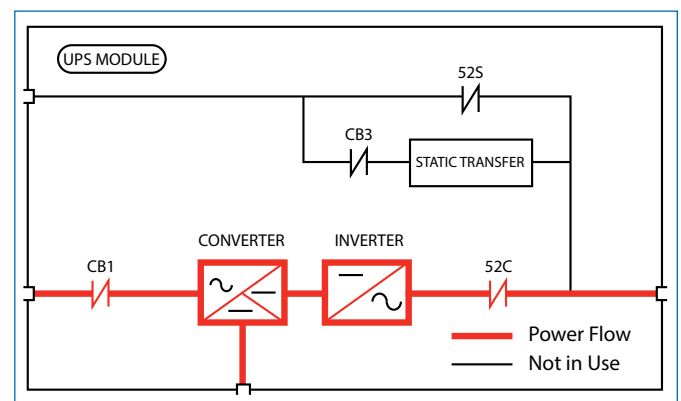
- Available in:  
500 kVA/500 kW, 750 kVA/750 kW
- Space-saving Compact Footprint  
(500 kVA 59.1" x 33.5" x 80.6")  
(750 kVA 84.7" x 33.5" x 80.6")
- True On-line,  
Double-Conversion Technology
- Typical 98.2% AC-AC Efficiency
- Parallel Up to 8 Units
- Dual Input Design  
(Alternate Input for Bypass)
- All Digital Signal Processor Software
- Easily Accessible for Installation  
and Maintenance
- No Capacity Derating up to 40°C  
(104°F) and 1981 meters (6500 ft)
- RemotEye 4 Monitoring:  
HTTP(S), SNMP, Modbus RTU  
& TCP, BACnet MSTP & IP



## G2020 SERIES UPS EFFICIENCY



## G2020 SERIES UPS DIAGRAM



MODEL NUMBER	T200H0500KWWW	T200H0750KWWW
Capacity (KVA/KW)	500 kVA	750 kVA
<b>AC INPUT</b>		
Configuration	3-Phase, 3-Wire	
Voltage	480 V +15% to -20%	
Frequency	60 Hz ±10%	
Reflected Current THDi	3% Typical at 100% Load (No Input Filter Required)	
<b>STATIC BYPASS INPUT</b>		
Configuration	3-Phase, 3-Wire	
Voltage	480 V ±10%	
Frequency	60 Hz ±5%	
<b>ENERGY STORAGE</b>		
Type	Lead Acid, Lithium Ion	
Ride Through	Application Specific	
Nominal Voltage	480 Vdc	
Minimum Voltage	400 Vdc	
Number of Cells (VRLA)	240	
<b>AC OUTPUT</b>		
Configuration	3-Phase, 3-Wire	
Voltage	480 V	
Voltage Regulation	±1%	
Frequency	60 Hz	
Frequency Regulation	±0.01% in Free Running Mode	
Power Factor	Unity (Nominal)	
Power Factor Range	0.7 Lagging to 0.8 Leading (Within Output kW Rating)	
Voltage THD	2% Maximum THD at 100% linear load. 5% maximum THD at 100% non-linear load.	
Transient Response	±2% Maximum at 100% Load Step. ±1% Maximum at Loss/Return of AC Power; ±5% Maximum at Load Transfer to/from Static Bypass	
Transient Recovery Time	Less than 20ms	
Voltage Unbalance	1% Maximum at 100% Unbalanced Load	
Phase Displacement	1° Maximum at 100% Load	
Inverter Overload	125% for 1 Minute; 150% for 10 Seconds	
Bypass Overload	500% for 1 Cycle (with Bypass Available)	
<b>ENVIRONMENT</b>		
Cooling	Forced Air	
Operating Temperature	32°F to 104°F (0°C to 40°C). Recommended: 68°F to 86°F ( 20°C to 30°C)	
Relative Humidity	5% – 95% Non-Condensing	
Altitude	0 to 6500 ft. (1981 m) No Derating at 104°F (40°C)	
Location	Indoor (Free From Corrosive Gases and Dust)	
Paint Color	Munsell N1.5 (Black)	
Clearance Required	Top: 24 in. (610 mm); Front: 40 in. (1016 mm); Rear: 0 in. (0 mm); Sides: 0 in. (0 mm) if Sidecars Used, 1 in. (25 mm) if No Sidecars Used.	

**INDUSTRIES SERVED**

- Data Center
- Emergency/Healthcare

**3 THREE YEAR WARRANTY** cULus

**G2020 SERIES APPLICATIONS**

- Edge Data Centers
- Colo Data Centers
- Hyper Scale Data Centers
- Computer Systems
- Server Rooms
- Edge Data Centers
- Banking Systems
- School System Computer Rooms
- Medical Labs

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Rev.10ESSENCE1619



**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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