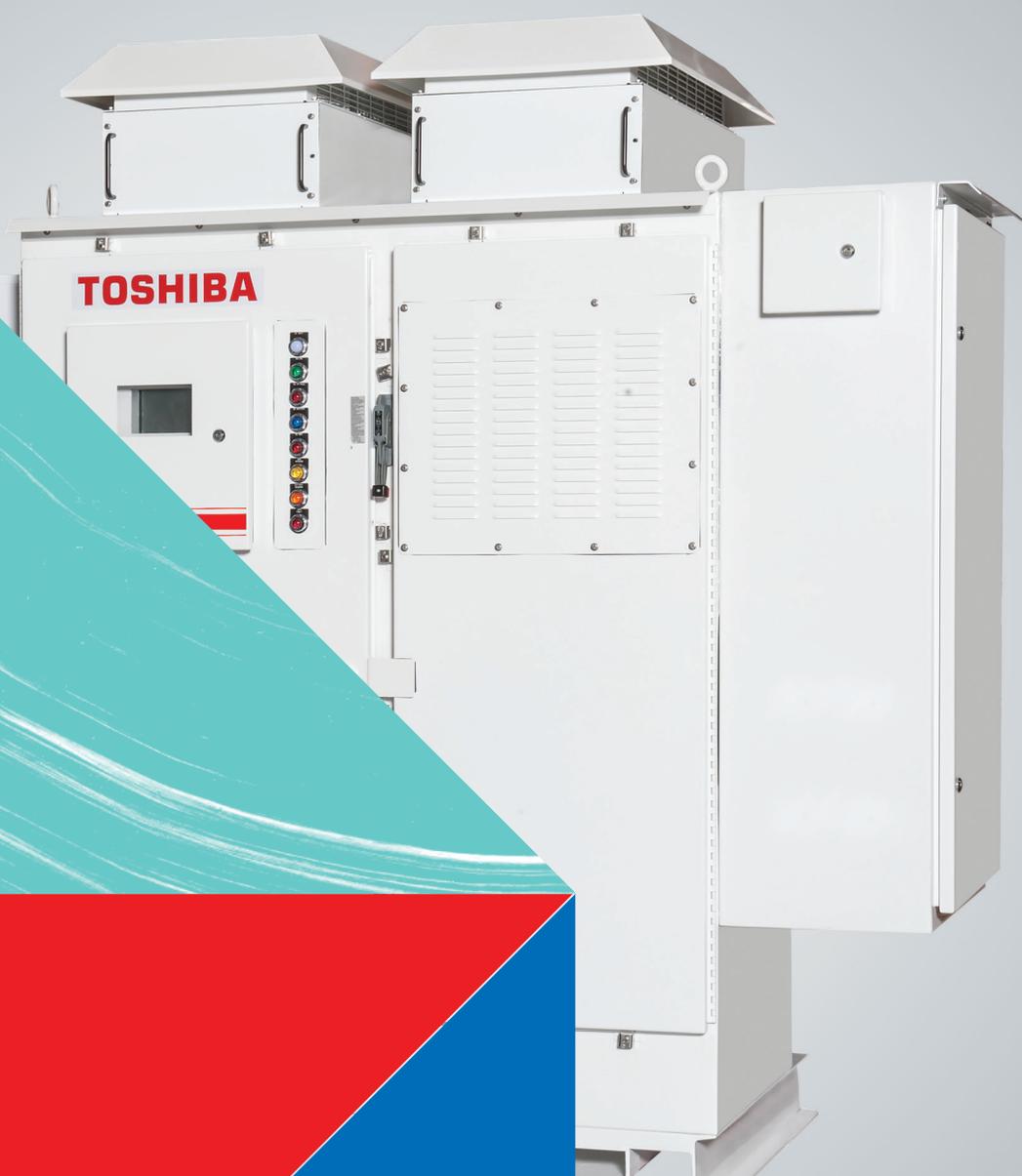


**TOSHIBA**

POWER ELECTRONICS

# 5000 SERIES N3R UPS

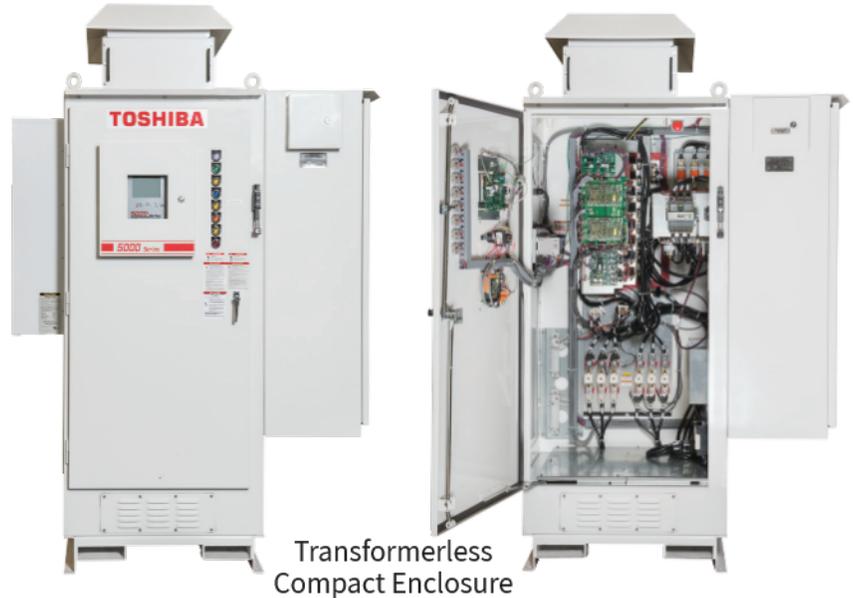
**UNINTERRUPTIBLE  
POWER SYSTEMS**



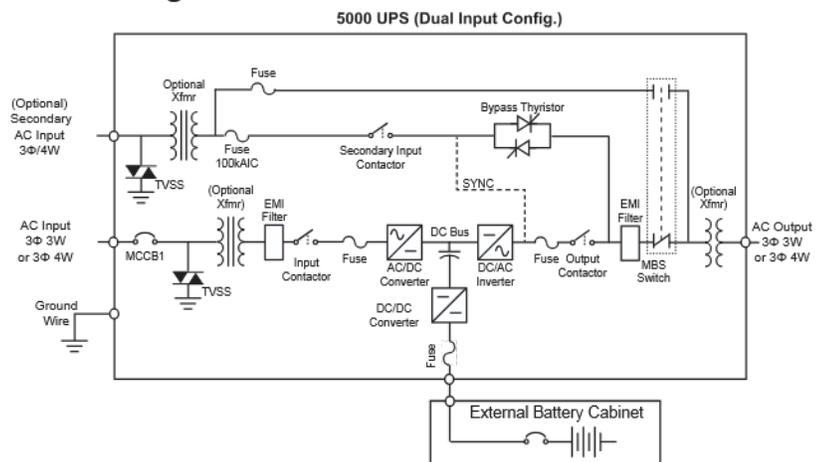
# REVOLUTIONIZE YOUR OUTDOOR POWER RELIABILITY WITH TOSHIBA'S OUTDOOR RATED N3R UPS

## RUGGED PERFORMANCE, WHERE NATURE MEETS TECHNOLOGY

The Toshiba 5000 Series Industrial three-phase uninterruptible power system (UPS) is built for the rigors of industrial applications. The unit is weatherproofed to NEMA 3R, making it resistant to environmental contaminants, and suitable for installation in both indoor and outdoor settings. The double-conversion, all insulated-gate bipolar transistor (IGBT) 5000 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 - all packaged within a ready-to-go N3R-rated outdoor solution, eliminating the need for large, bulky, and costly specially designed harsh environment or outdoor enclosures. Utilizing industrial-rated components designed for longevity, the N3R's lifespan extends well into 15 years and beyond and carries Toshiba's robust 3-year on-site warranty.



5000 Series N3R  
One Line Diagram



### END-TO-END SOLUTIONS

Toshiba offers a full array of solutions including input and output isolation transformers, PDUs, bypasses, external chargers, and distribution panels.

### UPS MONITORING

RemotEye<sup>®</sup> 4 offers real-time control, monitoring, and analysis of UPS operation. RemotEye<sup>®</sup> 4 also features a first-ever mobile website for monitoring UPS status updates on-the-go. Universal communications protocols compatible with RemotEye<sup>®</sup> 4 include Modbus<sup>®</sup> TCP & RTU, BACnet<sup>®</sup> IP & MSTP, HTTP/HTTPS, and SNMP. RemotEye<sup>®</sup> 4 is compatible with IPv6. The 5000 Series also includes a Human Machine Interface (HMI) with PLC I/O ports to allow customer specific hard wire communication.

## OPTIONS & ACCESSORIES

### ENERGY STORAGE SYSTEMS OPTIONS

The Toshiba 5000 Series N3R UPS seamlessly integrates with a variety of 288Vdc Energy Storage topologies, including VRLA and wet cell batteries, as well as Toshiba's SCiB<sup>™</sup> Lithium-ion batteries. Tailored to meet the unique needs of different industrial harsh environment applications, backup run-times range from 2 minutes to 8 hours.

## N3R STANDARD FEATURES

- 14°F to 122°F (-10°C to 50°C) Operational Range
- Waterproof enclosure, able to withstand up to 95% non-condensing humidity
- Hurricane proof: Able to withstand winds of 160mph
- Designed to withstand harsh seismic requirements.
- Cleanable wire mesh air filters
- Transformerless all IGBT Double conversion online VFI UPS
- 208V 4 wire + ground input / output
- 65 kAIC-Rated
- Fuseless TVSS on all inputs
- Built-in Rotary Maintenance Bypass Switch (MBS) with Mechanical Interlock
- Easy to navigate touchscreen LCD Operational HMI
- Programmable I/O Ports
- Bright LED Operation Status Indicators
- LED light test
- Heavy Duty Keyed Doors
- EPO switch and Remote EPO capability.
- Bottom cable entry
- Industrial rated components designed for a 20 year life span
- Toshiba RemotEye 4 Multi-Protocol UPS Monitoring Solution
- Wave Capture Troubleshooting tool
- IPC Class 3 Printed Circuit Boards

## N3R OPTIONS

- Dual Input configuration
- Internal Copper-wound Galvanic isolation transformers for input voltages other than 208V 4 wire.
- Internal Copper-wound transformers for output voltages other than 208V 4 wire.
- External Energy Storage Systems (batteries) for application specific backup times.
- SCiB Lithium-ion Battery offering
- External Stand alone or Wall Mount Wrap-around bypass (MBS) Cabinet with mechanical keyed interlock or SKRU
- PDUs
- Distribution panels
- Isolation Transformers on Alternate input
- Spare Part Repair Kits

## INDUSTRIES SERVED

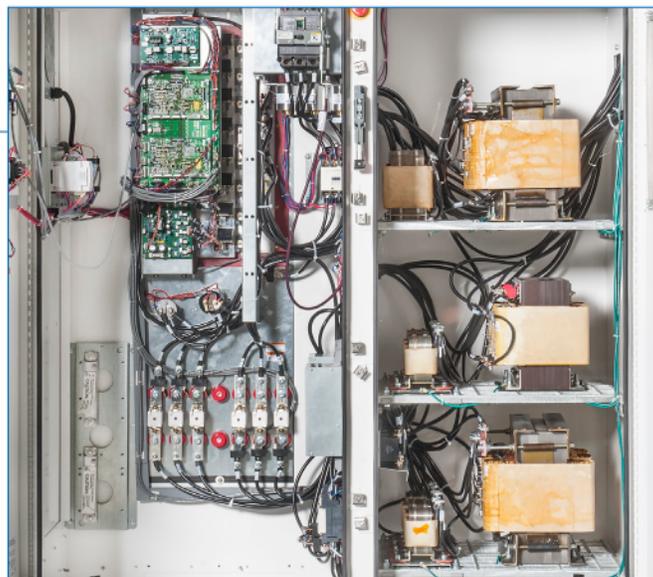
- Oil & Gas
- Chemical Plants and Refineries
- Water/Wastewater
- Mining
- Telecommunications/Relay Towers
- Offshore and Marine Power
- Bottling and Beverage
- Paper and Pulp
- Outdoor and Remote Sites



Toshiba RemotEye® 4 Monitoring Card

## TOSHIBA ADVANTAGE

- Proudly Assembled in the U.S.A at the Toshiba International Corporation manufacturing facility in Houston, Texas
- Electrical components have a 20-year design service life



Copper Wound Transformers & Industrial Components



## TOSHIBA 5000 SERIES N3R SPECIFICATIONS

MODEL				
Model Number*	5CP0G015KCXC, 5CP0G020KCXC	5CP0G025KCXC, 5CP0G030KCXC	5CP0G015KWXX, 5CP0G020KWXX	5CP0G025KWXX, 5CP0G030KWXX
Capacity	15/20 kVA	25/30 kVA	15/20 kVA	25/30 kVA
Topology	True On-Line, Double-Conversion, All-IGBT Technology			
INPUT				
Voltage (Standard)	208/120V: Three-Phase, Four-Wire + Ground Single Input, Transformerless		480 V: Three-Phase, Three-Wire + Ground, with Isolation Transformer**	
Voltage Range	-15% to +10% (Without Using Battery)			
Power Factor	>0.98			
Current THD	<3% at 100% Load			
Frequency	50 +/- Hz; 60 +/- Hz			
OUTPUT				
Voltage (Standard)	208/120 V: Three-Phase, Four-Wire + Ground		480/277 V: Three-Phase, Four-Wire + Ground with Auto Transformer***	
Frequency	50/60 Hz, +0.1% Auto-Sensing Standard. (50/60 Hz Selectable, for use as Frequency Converter)			
Voltage Regulation	+/-3%			
Power Factor	0.9 Lagging			
Overload	Inverter: 125% for 90 Seconds, 150% for 30 Seconds, Bypass: 125% for 10 Minutes, 1000% for 10 Milliseconds			
BATTERY				
DC Link	288 VDC			
DC Ripple Voltage	<0.5%			
ENVIRONMENT				
Temperature Range	14° to 122°F (-10° to 50°C)			
Relative Humidity	5% to 95% Non-Condensing			
Full-Load Efficiency	89%	88%	85%	84%
25% Load Efficiency	76%	77%	72%	73%
Altitude	3300 ft. (1000 m) Maximum Without Derating			
Air Filtration	Main airflow top-to-rear-bottom with top-located filters			
Audible Noise	<65dBA @ 1 m Typical			
DIMENSIONS				
Dimensions	59.38"W x 38.70"D x 92.09"H (1508 mm x 983 mm x 2339 mm)		84.34"W x 38.72"D x 92.09"H (2142 mm x 938 mm x 2339 mm)	
Weight****	970-1,020 lbs. (440.0-462.7kg)		1,220-1700 lbs. (553.4-771.1 kg)	
ADDITIONAL FEATURES				
Color	White Outdoor Smooth Powder Coat			
Monitoring	Touchscreen LCD HMI, UPS Status N/O Dry Contacts, RS232C Interface (Optional RemotEye® 4 Intelligent Monitoring System)			
Options	Single or Dual Input Feed, Remote Status Alarm Panel		Internal Transformers, Single or Dual Input Feed, Remote Status Alarm Panel	
Features	18 Gauge Steel Enclosure, TVSS Included on Primary and Bypass Inputs, Integrated Rotary MBS, Enclosure Anchoring Bolts			
Standards	UL/CUL 1778 Listed, ISO 9001, ISO 14001, ANSI C62.41 (IEEE 587), NEMA PE 1-1993			
Warranty	3-Year On-Site Warranty; See Toshiba Warranty Policy for Full Details			
Service	24-Hour, 365-Day Technical Support: 1-877-867-8773			

\* "X" in the last 2 digits of model number changes to reflect configuration of output voltage transformers and choice of single vs dual input

\*\* Standard model includes 480D - 208Y Isolation Transformer. Other Isolation Transformer Options available (200-600 V)

\*\*\* Standard model includes 208Y - 480Y Auto Transformer. Other Auto Transformer Options available (200-600 V)

\*\*\*\* Weight will vary based on internal transformer & dual input options

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## TOSHIBA INTERNATIONAL CORPORATION

## POWER ELECTRONICS DIVISION

Uninterruptible Power Systems • SciB™ Lithium Ion Batteries  
Energy Management Systems • Remote Monitoring • High Power Chargers  
Containerized Solutions • PDU • RPP



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