

# T-4003 (TRANSFORMER LESS)

## THREE PHASE - 10 to 40 kVA



### ADVANCED IGBT RECTIFIER & HF PFC TECHNOLOGY

#### FEATURES

##### - High Performance

Input THDI  $\leq 4\%$ , Input Power Factor  $\geq 0.99$  to save more energy.

##### - IGBT Technology

5th generation IGBT Inverter technology to enhance the output voltage/current performance.

##### - Maximum Reliability

Parallel Redundancy of up to 8 units ensures maximum reliability & availability.

##### - Low running costs

Advanced technology and use of high performance components, allows the UPS to provide exceptional performance & efficiency.

## ONLINE DOUBLE CONVERSION PURE SINE WAVE HIGH FREQUENCY WITHOUT BATTERIES

# T-4003 THREE PHASE

The i-power T-4003 series is a fully digitised 3 Phase double conversion online UPS that can provide your critical equipment with reliable and stable sine wave power. It features significant advantages, including an output power factor of 0.9 and up to 93% AC-AC efficiency for greater energy savings.

### - GUARANTEEING A STABLE AC MAINS VOLTAGE

It is a versatile, high quality, and cost-competitive UPS developed to handle a wide voltage range and inconsistent power conditions. T-4003 series is offering the best-in-class combination of maximum available power, unbeatable energy efficiency and superior power performance for small and medium important equipment/application systems, such as SME data exchange centres, communication equipment industry, and precision instruments.

##### - Online Double Conversion

True online double-conversion topology and zero transfer time to battery provides 24/7 full-time protection

##### - Generator Compatibility

Can be connected with all types of generators to save customers costs.

##### - Tested and Verified

All devices are fully tested and verified for maximum performance.

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Technology You Can Rely On

### TECHNICAL SPECIFICATION

Model	OH3010T93200S	OH3015T93200S	OH3020T93200S	OH3030T93200S	OH3040T93200S
Capacity	10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW	30KVA / 27KW	40KVA / 36KW
UPS Structure	Online Double Conversion				
Topology	High Frequency Design				
Overall Efficiency (AC-AC)	>93%				
Noise (In 2 metres)	<50dB to 65dB				
Working Temperature	-10°C to 40°C				
Storage Temperature	-25°C to 60°C (Without Batteries)				
Humidity	<95%Non-Condensing				
International Standard	EN 50091-1/2, EN62040-1, EN62040-2				
Parallel Redundancy	Parallel Redundancy Upto 8 Units				
Protections	Overload, Short-Circuit, Over Temperature, Utility Power Voltage High/Low, BAT Voltage High/Low				
DC Start	Available				
Generator Compatibility	Available				
Display	5 Inch LCD Color Touch Screen (Multi-Language) + LED				
Mute	Auto				
IP Rating	IP20				
Cooling System	Intelligent Speed Control Cooling Fan				
Elevation	<1500M, Without Derating				

### RECTIFIER SPECIFICATION

Input Voltage	380Vac+N+W, 3 Phase				
Input Voltage Range	380Vac+25% to 45% (When Input Voltage <75%, Output Power Derated)				
Input Frequency Range	40Hz to 70Hz				
Soft-Start	>20 Seconds				
Input PF	0.99				
THDI	<3.5%				
Input Current	20A	30A	40A	57A	77A

### OUTPUT SPECIFICATION

Output Voltage	Line Voltage: 380x(1±1%) AC or Phase Voltage: 220x(1±1%) AC				
Output Power Factor	0.9				
Output Voltage Regulation	380Vac±1%(Static Load); 380Vac±2%(50-0% Sudden Change); 380Vac±3%(100-0% Sudden Change)				
Output Frequency	±8% at 50Hz: Online Mode tracking input and bypass freq.; ±0.1%: when input or bypass frequency is more than ±8% or under BAT Mode				
Distortion	<1% (Linear Full Load), <3% (Non-Linear Full Load)				
3 Phase Unbalanced	Allow 3 Phase 100% Unbalanced				
Output Volt Unbalanced °	≤1°(Balanced Load)				
Input/Output Phase Swift	≤1°(Balanced Load)				
Frequency Tracking Range	46Hz to 54Hz				
Output Waveform	Pure Sine Wave				
Overload	<125% more than 10 mins; >125% more than 1 min; >150% more than 300ms transfer to bypass				
Crest Ratio	3:1				
Efficiency	>93%				
Short-Circuit	Circuit Auto-Protection, Bypass Switch Tripping				
Output Abnormal	INV. Output Auto-Locked Protection				

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### BYPASS SPECIFICATION

Static Bypass Transfer Time	0ms
Static Bypass Input Range	380Vac (-15 to+15%)
Frequency Range	±1Hz, ±2Hz, ±3Hz Selectable
Bypass - INV Transfer Time	2ms
Frequency Tracking Speed	0.5Hz to 2Hz/s
Manual Maintenance Bypass	Available

### BATTERY SPECIFICATION

Model	OH3010T93200S	OH3015T93200S	OH3020T93200S	OH3030T93200S	OH3040T93200S
Capacity	10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW	30KVA / 27KW	40KVA / 36KW
Type	Sealed Lead Acid Maintenance Free				
VDC	±168Vdc, ±180Vdc, ±192Vdc				
Charging Current	5-10Amp				
BAT Low	Shutdown Protection				

### COMMUNICATION SPECIFICATION

Std. Communication Port	Rs232
Optional	SNMP/RS485/Dry Contact
Remote Software	Multi-Functional Monitoring System, Online and BAT Mode Status, BAT Fault, Remote Control

### PHYSICAL CHARACTERISTICS

Dimensions (WxDxH) mm	370x705x1030				
Net Weight (Kg)	80	86	89	106	112

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