T-4003 (TRANSFORMER LESS)
THREE PHASE - 60 to 120 kVA

i-power®
Technology You Can Rely On

CE RoHS

ADVANCED IGBT RECTIFIER & HF PFC TECHNOLOGY

FEATURES

- High Performance
Input THDI ≤4%, Input Power Factor ≥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 critcal 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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TECHNICAL SPECIFICATION

Model	OH3060T93200S	OH3080T93200S	OH3100T93200S	OH3120T93200S
Capacity	60KVA / 54KW	80KVA / 72KW	100KVA / 90KW	120KVA / 108KW
UPS Structure	Online Double Conversion			
Topology	High Frequency Online 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	7 Inch Color Touch LCD			
Mute	Auto			
IP Standard	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 Power Factor	0.99			
THDI	<3.5%			
Input Current	115A	153A	192A	230A

OUTPUT SPECIFICATION

Output Voltage	Line Voltage: 380×(1±1%) AC or Phase Voltage: 220×(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	OH3060T93200S	OH3080T93200S	OH3100T93200S	OH3120T93200S
Capacity	60KVA / 54KW	80KVA / 72KW	100KVA / 90KW	120KVA / 108KW
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 (W×D×H) mm	600×790×1900		700×790×1900
Net Weight (Kg)	265	287	457