T-4003 (TRANSFORMER LESS)
THREE PHASE - **10 to 40 kVA**

i-power®
Technology You Can Rely On

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 WITH BUILT-IN BATTERIES

T-4003
THREE PHASE

The i-power T-4003 series is a true full 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	OH3010T93200B	OH3015T93200B	OH3020T93200B	OH3030T93200B	OH3040T93200B
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: 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	OH3010T93200B	OH3015T93200B	OH3020T93200B	OH3030T93200B	OH3040T93200B
Capacity	10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW	30KVA / 27KW	40KVA / 36KW
Type	Sealed Lead Acid Maintenance Free				
VDC - Ah Rating	±168Vdc, ±180Vdc, ±192Vdc - Compatible with built-in batteries 12V/7-9Ah up to 64 units maximum				
Charging Current	1-5 Amp				
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	370×705×1400			370×705×1700	
Net Weight (Kg) Without Batteries	174	180	183	274	280