T-4003 (TRANSFORMER LESS)
THREE PHASE - **10 to 20 kVA**

i-power®
Technology You Can Rely On

HIGH EFFICIENCY ECO VERSION TECHNOLOGY

FEATURES

- **High Efficiency**
  Up to 98% on ECO Mode.
- **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 0.8 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	OH3010T81607S	OH3020T82007S
Capacity	10KVA / 8KW	20KVA / 16KW
UPS Structure	Online Double Conversion	
Topology	High Frequency Online Design	
Overall Efficiency (AC-AC)	>91%	
Noise (In 2 metres)	<60dB	
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 up to 8 Units	
Protections	Overload, Short-Circuit, Over Temperature, Utility Power Voltage High/Low, BAT Voltage High/Low	
DC Start	Available	
Generator Compatibility	Available	
Display	LCD/LED	
Mute	Auto	
Cabinet Standard	IP20	
Cooling System	Intelligent Speed Control Cooling Fan	
Elevation	<1500M, Without Derating	

RECTIFIER SPECIFICATION

Input Voltage	380Vac+N+W
Input Voltage Range	265-494Vac with 100% full load, no load can reach 210-494Vac
Input Frequency Range	40Hz to 70Hz (Adjustable)
Soft-Start	>20 seconds
Input Power Factor	0.99
THDI	<5%

OUTPUT SPECIFICATION

Output Voltage	Line Voltage: 380×(1±1%) AC or Phase Voltage: 220×(1±1%) AC
Output Power Factor	0.8
Output Voltage Regulation	380Vac±1%(Static Load); 380Vac ± 3%(50-0% Sudden Change); 380Vac±5%(100-0% Sudden Change)
Output Frequency	46-54Hz Sync with Utility grid, more than the range lock at 50Hz, Battery Mode is 50/60Hz±0.1%
Distortion	<1%(Linear Full Load), <3%(Non-Linear Load)
3 Phase Unbalanced	Allow 3 Phase 100% Unbalanced
Output Volt Unbalanced °	≤1° (Balanced Load); ≤2° (50% Balanced Load)
Input/Output Phase Swift	≤1° (Balanced Load); ≤2° (50% Balanced Load)
Frequency Tracking Range	46Hz to 54Hz
Output Waveform	Pure Sine Wave
Overload	105-125%±5% More than 1 minute; > 125-130%±5% More than 30 Seconds; ≥135%±5% More than 300 ms
Crest Ratio	3:1
Short-Circuit	Circuit Auto Protection, Bypass Switch Tripping
Output Abnormal	INV. Output Auto-Locked Protection

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BYPASS SPECIFICATION

Static Bypass Input Range	380Vac (-15 to 15%)
Bypass - INV Transfer Time	2ms
Frequency Tracking Speed	0.5Hz to 2Hz/s
Manual Maintenance Bypass	Available

BATTERY SPECIFICATION

Model	OH2010T81600S	OH2020T81600S
Capacity	10KVA / 8KW	20KVA / 16KW
Type	Sealed Lead Acid Maintenance Free	
VDC	192Vdc - 7Ah	240Vdc - 7Ah
Charging Current	1 Amp	
BAT Low	Shutdown Protection	

COMMUNICATION SPECIFICATION

Standard 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	260×560×717	260×710×717
Net Weight (Kg)	72	98

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