

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



## 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 WITHOUT 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 critical 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	OH3010T81600S	OH3020T81600S	OH3030T84000S	OH3040T84000S
Capacity	10KVA / 8KW	20KVA / 16KW	30KVA / 24KW	40KVA / 32KW
UPS Structure	Online Double Conversion			
Topology	High Frequency Online Design			
Overall Efficiency (AC-AC)	>91%		>93%	
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 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	LCD/LED			
Mute	Auto			
IP Standard	IP20			
Cooling System	Intelligent Speed Control Cooling Fan			
Elevation	<1500M, Without Derating			

### RECTIFIER SPECIFICATION

Input Voltage	380Vac + N + W Three-Phase
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: 380x(1±1%) AC or Phase Voltage: 220x(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 Full 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	OH3010T81600S	OH3020T81600S	OH3030T84000S	OH3040T84000S
Capacity	10KVA / 8KW	20KVA / 16KW	30KVA / 24KW	40KVA / 32KW
Type	Sealed Lead Acid Maintenance Free			
VDC	192Vdc	192Vdc	±192Vdc / ±240Vdc	±192Vdc / ±240Vdc
Charging Current	5A			
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	260x533x501	260x710x717	260x710x717	260x710x717
Net Weight (Kg)	26	57.5	58.5	62

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