

T-4001 (TRANSFORMER LESS)

SINGLE PHASE - 1 to 10 kVA



LATEST HF SWITCHING POWER SUPPLY RECTIFIER & PFC TECHNOLOGY

FEATURES

- **Wide Input Voltage Range**
Allows the UPS to work in harsh environments and reduces battery discharging time.
- **IGBT Technology**
IGBT technology to achieve high overall efficiency up to 90%.
- **High Input Power Factor**
High input power factor (0.99) and low harmonic distortion.
- **Generator Compatibility**
Can be connected with all kinds of generators to save customers costs.

ONLINE DOUBLE CONVERSION PURE SINE WAVE HIGH FREQUENCY WITH BUILT-IN BATTERIES

T-4001 SINGLE PHASE

The i-power T-4001 series is a true online double-conversion UPS that can provide your critical equipment with reliable and stable sine wave power. It features significant advantages, including an output power factor up to 0.8/0.9 and up to 90% 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. The T-4001 series provides a safe power supply guaranteed for mission-critical applications such as computer equipment, telecommunication devices, precision instrument, network termination equipment, and more.

- **Online Double Conversion**
True online double-conversion topology and zero transfer time to battery provides 24/7 full-time protection
- **Advanced Communications**
USB/RS232 & RJ-11/RJ45 serial port interface (Optional).
- **Tested and Verified**
All devices are fully tested and verified for maximum performance.

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TECHNICAL SPECIFICATION

Model	OH1001T80207S	OH1001T80407S	OH1003T80607S	OH1006T91607S	OH1010T91607S
Capacity	1KVA / 0.8KW	2KVA / 1.6KW	3KVA /2.4KW	6KVA / 5.4KW	10KVA / 9KW
UPS Structure	Online Double Conversion - Tower Type				
Topology	High Frequency, Transformer Less				
Overall Efficiency (AC-AC)	>90%				
Noise (In 2 metres)	<55dB				
Working Temperature	0°C to 40°C				
Storage Temperature	-15°C to 60°C (Without Batteries)				
Humidity	<95%Non-Condensing				
Safety Standard	GB/T14715, EN62040-1				
EMC Standard	EN 50091-1/2, EN62040-2				
Protections	Overload, Short-Circuit, Over Temperature, Utility Power Voltage High/Low, BAT Voltage High/Low				
Generator Compatibility	Available				
DC Start	Available				
Manual Maintenance Bypass	None			Optional	
Display	LCD/LED				
Alarm	Auto				
Mute	Auto				

RECTIFIER SPECIFICATION

Input Voltage Range	100% Load: 175 to 285Vac, 50% Load: 115 to 285Vac
Input Frequency Range	40Hz to 70Hz (Auto Sensing)
Input Power Factor	0.99
THDI	<5%

OUTPUT SPECIFICATION

Output Voltage	220Vac	
Output Power Factor	0.8	0.9
Output Voltage Regulation	220Vac±1% (Static Load); 220Vac±2% (50-0% Sudden Change); 220Vac±3% (100-0% Sudden Change)	
Output Freq.(BAT Mode)	50Hz±0.2%	
Output Waveform	Pure Sine Wave	
Distortion	<1% (Linear Full Load), <3% (100% Non-Linear Load)	
Overload	105 - 125% for 1 Minute 126 - 150%for 30 seconds	105 - 125% for 10 Minutes 126 - 150% for 1 Minute
Crest Ratio	3:1	
Efficiency	>90%	
Short-Circuit	Circuit Auto Protection Output Voltage/Current 0	
Output Abnormal	INV. Output Auto-Locked Protection	
Noise Suppression	EMI/RFI Wave Filter	
BAT Low	Shutdown Protection	
Dynamic Response	3% at Full Load, Recovering in 20ms	
Auto-Restart	Available	
Software Control	Available	

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BYPASS SPECIFICATION

Static Bypass Transfer Time	0ms
Static Bypass Range	80Vac±5% to 285Vac±5%
Bypass - INV Transfer Time	2ms

BATTERY SPECIFICATION

Model	OH1001T80207S	OH1002T80407S	OH1003T80607S	OH1006T91607S	OH1010T91607S
Capacity	1KVA / 0.8KW	2KVA / 1.6KW	3KVA / 2.4KW	6KVA / 5.4KW	10KVA / 9KW
Type	Sealed Lead Acid Maintenance Free				
VDC-Ah	24Vdc - 7Ah	48Vdc - 7Ah	72Vdc - 7Ah	192Vdc - 7Ah	192Vdc - 7Ah
Charging Current	1A				

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 in mm	145x220x318	145x220x390	190x318x368	190x470x534	
Net Weight (Kg)	8.9	14	21.6	46.5	47.5

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