# T-4001 (TRANSFORMER LESS)
## SINGLE PHASE WITH 1PF - **1 to 10 kVA**

i-power®
Technology You Can Rely On



**LATEST HF SWITCHING POWER SUPPLY RECTIFIER & PFC TECHNOLOGY**

### FEATURES

- **Topology**
  High frequency on-line double conversion single phase
- **High Output Power Factor**
  High output power factor of 1
- **ECO Function**
  Comes with Eco friendly function to save cost
- **Input Voltage**
  Wide input voltage range from 110-300 VAC

CE RoHS

# ONLINE DOUBLE CONVERSION PURE SINE WAVE HIGH FREQUENCY WITHOUT BATTERIES

# T-4001 SINGLE PHASE

The i-power T-4001 series is a true online double-conversion UPS that can provide your critcal equipment with reliable and stable sine wave power. It features significant advantages, including an output power factor up to 1 and overall efficiency >95%. It also incorporates a reliable and energy saving green power system.

## - 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. Due to its 3-level inverter technology, 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.

- **Efficiency**
  Overall Efficiency up to 95% & 98.5% with ECO Mode
- **Safety**
  Battery anti reverse connection alarm and safety and battery test function
- **EPO Function**
  All devices have EPO function available
- **Flexible Battery**
  Flexible battery VDC options i.e. 192/240 VDC for long back-up 6 & 10 kVA models
- **LCD**
  Large and multifunctional LCD with comprehensive information about UPS working. Also multi page history record displayed on LCD

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## TECHNICAL SPECIFICATION

| Model | OH1001T10300S | OH1002T10600S | OH1003T10800S | OH1006T11600S<br>OH1006T12000S | OH1010T11600S<br>OH1010T12000S |
|---|---|---|---|---|---|
| Capacity | 1KVA/1KW | 2KVA/2KW | 3KVA/3KW | 6KVA/6KW | 10KVA/10KW |
| UPS Structure | Online Double Conversion - Tower Type | | | | |
| Topology | High Frequency, Transformer Less | | | | |
| Overall Efficiency | > 95% (98.5% under ECO mode) | | | | |
| Noise (In 2 metres) | <50dB | | | | |
| Working Temperature | -10°C to 40°C | | | | |
| Storage Temperature | -15°C to 60°C (Without Batteries) | | | | |
| Humidity | < 20-95% Non-Condensing | | | | |
| Standards & Certification | EN IEC 62040-1:2019+A1:2023, EN IEC 62040-2:2018 EN IEC 61000-3-2:2019+A2:2024, EN 61000-3-3:201+A2:2021 IEC 62321-3-1: 2013 IEC 62321-4:2013 +AMD1:2017 IEC 62321 -5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017 | | | | |
| Maintenance Bypass | None | | | | Optional |
| Protections | Overload, Short-Circuit, Over Temp., Utility Power Voltage High/low, BAT Voltage High/low | | | | |
| Alarm | Mains abnormal or Fault, BAT Voltage High/low, overload, UPS fault, shot circuit etc | | | | |
| ECO mode | Available | | | | |
| EPO mode | Available | | | | |
| DC start | Available | | | | |
| Generator Compatability | Available | | | | |
| Display | LCD Display: Multi-Language with all kinds of messages. Input/ Output /bypass Status, ECO Mode , charging status, load status, Rectifier status, INV. Temp, LED Indicators: UPS States Indicator" | | | LCD Display: Multi-Language with all kinds of messages. Input/ Output / bypass Status, ECO Mode , charging status, load status, Rectifier status, INV. Temp, Colored LCD screen：Working (days)；SN；Calendar、time；UPS model & structure；Version No.；history log records；history fault records；language set；ECO set； time & calendar set；battery test & so on. LED Indicators: UPS States Indicator | |
| Mute | Automatic | | | | |
| Cabinet Standard | IP20 | | | | |
| Cooling System | Intelligent Speed Control Cooling Fan | | | | |
| Altitude | ＜11000M, Without Derated, 1000m ＜altitude＜ 4500m, refer to IEC62040 | | | | |

## RECTIFIER SPECIFICATION

| | |
|---|---|
| Input Voltage | 220Vac (208/220/230/240Vac available) |
| Input Voltage Range | 110-300Vac at 50% load,176-276Vac at 100% loads (±5V) |
| Input Frequency Range | 44~56Hz or 54Hz~66Hz ±10Hz (adjustable) |
| Input PF | 0.99 |
| THDI | ≤ 3% linear load,≤ 5% Non-linear load |

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## OUTPUT SPECIFICATION

| | |
|---|---|
| Output Voltage | 220Vac (208/220/230/240Vac available) |
| Output PF | 1 |
| Output Voltage Regulation | 220Vac±1% (Static Load) ; 220Vac±2% (50-0% Sudden Change) ; 220Vac±5% (100-0% Sudden Change) |
| Output Freq (BAT Mode) | 50Hz±0.1% (Battery mode) |
| Output Waveform | Pure sine wave |
| Distortion | < 2% (Linear Full Load) , < 4% (100% Non-Linear Full Load) |
| Overload | Utility mode:<br>102%~105% load, more than 30mins, 105%~125% load, more than 10mins ,125%~150% load, 30s, >150% load, 500ms<br>Battery mode:<br>102%~105% load, more than 10mins, 105%~125% load, more than 1mins, 125%~150% load, 10s, >150% load, 500ms |
| Crest Ratio | 3:1 |
| Inverter Efficiency | >95% |
| Short Circuit | Circuit Auto Protection, Output Voltage/Current 0 |
| Output Abnormal | INV Output Auto-Locked Protection |
| Noise Suppression | EMI/RFI Wave Filter |
| BAT Voltage Low | Shutdown Protection |
| Dynamic Response | 3% at Full Load, Recovering in 20ms |
| Auto-Restart Function | Available |
| Software Control | Available |

## BYPASS SPECIFICATION

| | | |
|---|---|---|
| Static Bypass Transfer Time | 0ms | |
| Static Bypass Range | 80Vac±5%～285Vac±5% | |
| Bypass - INV Transfer Time | < 4ms | < 2ms |

## BATTERY SPECIFICATION

| | | | | | |
|---|---|---|---|---|---|
| Type | Sealed Lead Acid Maintenance Free | | | | |
| VDC | 36 VDC | 72 VDC | 96 VDC | 192/240 VDC | 192/240 VDC |
| Charging Current | 5-10 A | | | 6-12 A | |

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## COMMUNICATION SPECIFICATION

| | |
|---|---|
| Standard Communication Port | Std.RS232/EPO；SNMP/485/dry contact（optional） |
| Optional | SNMP/RS485/ Dry Contact |
| Remote Software | Multi-functional Monitoring System, Online and BAT Mode<br>Status, utility fault, BAT Fault, Remote Control |

## PHYSICAL CHARACTERISTICS

| Dimensions in mm (DxWxH) | 144×282×214 | 144×397×214 | 190×421×318 | 190×360×335 | |
|---|---|---|---|---|---|
| Net Weight (Kg) | 5 | 7 | 7.5 | 10 | 10.5 |
| Product image and technical specifications are for reference and could be change without any notice. | | | | | |

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