

# T-4011 (TRANSFORMER LESS) SINGLE PHASE - 1 to 10 kVA



## FULL-DIGITISED CONTROL WITH COMPREHENSIVE MONITORING & PROTECTIONS

### FEATURES

- **Wide Input Voltage Range**  
Allows the UPS to work in harsh environments and reduces battery discharging time.
- **Powerful Overload Ability**  
With output short circuit protection
- **High Power Factor**  
Latest HF rectifier and PFC Technology
- **ECO Function**  
Upto 98.5% efficiency under ECO mode

## ONLINE DOUBLE CONVERSION RACK-TOWER UPS WITH 1PF WITHOUT BATTERIES

## T-4011 SINGLE PHASE

The i-power T-4011 series is a true online double-conversion Rack-Tower UPS that can provide your critical equipment with reliable and stable pure sine wave power. It features significant advantages, including an output power factor up to 1 and overall efficiency > 95%. It also provides a highly 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-4011 series provides a safe power supply guaranteed for mission-critical applications such as computer equipment, telecommunication devices, precision instrument, network termination equipment, and more.

### - Auto-Restart

Auto restart (when mains power is restored, after discharge of the batteries).

### - 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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## SINGLE PHASE - 1 to 10 kVA

Model	OH1001C10300S	OH1002C10600S	OH1003C10800S	OH1006C11600S	OH1010C11600S
Capacity	1KVA / 1KW	2KVA / 2KW	3KVA / 3KW	6KVA / 6KW	10KVA / 10KW

## TECHNICAL SPECIFICATION

UPS Structure	Online Double Conversion - Rack / Tower Type	
Topology	High Frequency, Transformer Less	
Overall Efficiency	> 95% (98.5% under ECO mode)	
Noise (In 2 meters)	< 50dB	
Working Temp	-10-40°C	
Storage Temp	-15-60°C (without batteries)	
Humidity	< 20-95% Non-Condensing	
Safety Standard	GB/T 7260, GB/T 4943, YD/T1095, TLC	
EMC Standards	EN/IEC 61000, EN/IEC 62040,	
Maintenance bypass	NA	Optional
Protection	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, short 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

## 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 Status, utility fault, BAT Fault, Remote Control

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### OUTPUT SPECIFICATION

Output Voltage	220Vac (208/220/230/240Vac available)
Output PF	1
Output Voltage Regulation	220Vac $\pm$ 1% (Static Load) ; 220Vac $\pm$ 2% (50-0% Sudden Change) ; 220Vac $\pm$ 5% (100-0% Sudden Change)
Output Freq (BAT Mode)	50Hz $\pm$ 0.1% (Battery mode)
wave form	Pure sine wave
Distortion	< 2% (Linear Full Load) , < 4% (100% Non-Linear Full Load)
Overload	Utility mode: 102%~105% load, more than 30mins, 105%~125% load, more than 10mins ,125%~150% load, 30s, >150% load, 500ms Battery mode: 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
Battery voltage low	Shut down 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	72	96	192	192
Charging current	5-10A			6-12A	

### PHYSICAL PARAMETERS

Dimensions in mm (WxDxH)	440x450x88/2U			440x470x88/2U	
Weight (KG)	5	7	8	10	10.5

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