

T-4012 (TRANSFORMER LESS)

3-PHASE IN/1-PHASE OUT - (RACK MOUNTABLE) **10 to 20 kVA**



LATEST HF SWITCHING POWER SUPPLY RECTIFIER & PFC TECHNOLOGY

FEATURES

- **Wide Input Voltage Range**
Avoids unnecessary battery usage and extends battery life.
- **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 (THDI 5%) saves upstream investment.
- **Generator Compatibility**
Can be connected with all kinds of generators to save customers costs.

ONLINE DOUBLE CONVERSION PURE SINE WAVE HIGH FREQUENCY WITHOUT BATTERIES

T-4012

3-PHASE IN/1-PHASE OUT

The i-power T-4012 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 0.9 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, providing high efficiency and adaptivity to all kinds of environments. The T-4012 series provides a safe power supply guaranteed for mission-critical applications such as computer equipment, telecommunication devices, precision equipment 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
- **Intelligent Battery Management**
Intelligent battery management sustains battery life and performance.
- **Tested and Verified**
All devices are fully tested and verified for maximum performance.

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TECHNICAL SPECIFICATION

Model	OH2010C81600S	OH2015C81600S	OH2020C81600S
Capacity	10KVA / 8KW	15KVA / 12KW	20KVA / 16KW
Model	OH2010C92000S	OH2015C92000S	OH2020C92000S
Capacity	10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW
UPS Structure	Online Double Conversion - Tower Type		
Topology	High Frequency, Transformer Less		
Overall Efficiency (AC-AC)	>90%		
Noise (In 2 metres)	<50dB		
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	Optional		
Display	LCD/LED		
Alarm	Auto		
Mute	Auto		

RECTIFIER SPECIFICATION

Input Voltage Range	304Vac to 478Vac
Input Frequency Range	45Hz to 65Hz (Auto Tracking)
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 Frequency (BAT Mode)	50Hz±0.2%
Output Waveform	Pure Sine Wave
Distortion	<1% (Linear Full Load), <3% (100% Non-Linear Load)
Overload	>120% More than 1 Minute; >150%: 300ms Transfer to Bypass
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	OH2010C81600S	OH2015C81600S	OH2020C81600S
Capacity	10KVA / 8KW	15KVA / 12KW	20KVA / 16KW
Model	OH2010C92000S	OH2015C92000S	OH2020C92000S
Capacity	10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW
Type	Sealed Lead Acid Maintenance Free		
VDC	192/240 Vdc		
Charging Current	5Amp		

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 (DxWxH) mm	700x430x88/2U	800x430x178/4U	
Net Weight (Kg)	25	35	35