

T-6003 (MODULAR SERIES)

THREE PHASE - **30 to 300 kVA**



INDIVIDUAL BYPASS DESIGN

FEATURES

- **Wide Input Voltage Range**
207-478Vac.
- **High Efficiency**
95% overall efficiency for low running costs.
- **Scalability**
Modular design provides easy maintenance and scalability.
- **Hot-Swap Feature**
Hot-swappable function ensures uninterrupted operations during maintenance.
- **Individual Bypass Design**
Each module has built-in bypass breaker and bypass inductance to keep better system reliability.

ONLINE DOUBLE CONVERSION HOT-SWAPPABLE MODULAR UPS WITHOUT BATTERIES

T-6003 THREE PHASE

The i-power T-6003 series is a true online double-conversion modular UPS that can provide your critical equipment with reliable and stable power. It features significant advantages, including hot-swappable modular structure and N+X redundancy. With its high efficiency, this series delivers remarkably low total cost of ownership and operating expense.

- **GUARANTEEING A STABLE AC MAINS VOLTAGE**

The i-power T-6003 is the ultimate modular UPS series for Data centres and other critical loads. The UPS is designed to protect any critical high-density computer and IT environment, while achieving maximum availability. The T-6003 series grows along with the demands of the business without over-sizing the UPS, optimizing both the initial investment and the total cost of ownership.

- **Outstanding Performance**

The advanced technologies deployed within the UPS guarantees full rated power without any power downgrading even when operating at temperatures up to 40°C.

- **Tested and Verified**

All devices are fully tested and verified for maximum performance.

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TECHNICAL SPECIFICATION

Cabinet Model	MH3090U94000S	MH3150U94000S	MH3300U94000S
Cabinet Capacity (KVA)	90	150	300
Module	MH3030M90000S		
Module Capacity	30KVA / 27KW		
UPS Structure	Online Double Conversion		
Appearance	Standard Telecom Cabinet with Modular Structure Design		
Overall Efficiency	>95%		
Noise (In 2 metres)	<50dB to 60dB		
Working Temperature	0°C to 40°C		
Storage Temperature	-25°C to 55°C (Without Batteries)		
Humidity	<95% Non-Condensing		
Safety Standard	IEC62040		
EMC Standard	CE, YD/T1095-2008, EN /IEC 62040-2, EN/IEC 62040-1-1		
Protections	Overload, Short-Circuit, Over Temperature, Utility Power Voltage High/Low, BAT Voltage High/Low		
Generator Compatibility	Available		
DC Start	Available		
Parallel Redundancy	Modular Parallel upto 10 Units		
Display	LCD		
Mute	Auto		
IP Rating	IP20		
Cooling System	Intelligent Speed Control Cooling Fan		
Elevation	<1000M without Derating, >1000M: Derating 1% every 100M		

RECTIFIER SPECIFICATION

Input Voltage	380Vac+N+W, 3 Phase
Input Voltage Range	208Vac to 478Vac
Input Frequency Range	40Hz to 70Hz
Soft-Start	>60 Seconds
Input PF	0.99
THDI	<3%(100% Non-Linear Load)

BYPASS SPECIFICATION

Static Bypass Transfer Time	0ms
Static Bypass Input Range	Bypass Protection upper limit: +15%(Adjustable +5%, +10%, +25%) Bypass Protection lower limit: -45%(Adjustable - 20%, -30%) Bypass Frequency Protection Range: ±10%
Frequency Range	±1Hz, ±2Hz, ±3Hz Adjustable
Bypass - INV Transfer Time	2ms
Frequency Tracking Speed	0.5Hz to 2Hz/s
Manual Maintenance Bypass	Available

COMMUNICATION SPECIFICATION

Communication Port	RS232/SNMP/485/Dry Contact (Optional Accessory)
Remote Software	Multi-functional Monitoring System, Online and BAT Mode Status, BAT Fault, Remote Control

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OUTPUT SPECIFICATION

Output Voltage	Line Voltage: 380x(1±1%) AC or Phase Voltage: 220x(1±1%) AC
Output Power Factor	0.9
Output Voltage Regulation	380Vac±1%(Static Load); 380Vac±2%(50-0% Sudden Change); 380Vac±3%(100-0% Sudden Change)
Output Frequency	Synchronization with Input at online mode. When differences are greater than ±10% (Selectable±1%,2%,4%,5%) Output frequency will be 50x(±0.2)Hz 50Hz±0.2% (BAT Mode)
Distortion	<2%(Linear Full Load), <5%(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	47Hz to 63Hz
Output Waveform	Pure Sine Wave
Overload	110%: More than 10 mins; >125% More than 1 min; >150%: More than 30 seconds then transfer to bypass
Crest Ratio	3:1
Efficiency	>95%
Short-Circuit	Circuit Auto Protection, Bypass Switch Tripping
Output Abnormal	INV. Output Auto-Locked Protection

BATTERY SPECIFICATION

Cabinet Model	MH3090U94000S	MH3150U94000S	MH3300U94000S
Cabinet Capacity (KVA)	90	150	300
Module	MH3030M90000S		
Module Capacity	30KVA / 27KW		
Type	Sealed Lead Acid Maintenance Free		
BAT Rated Volts/Units	±192V \ ±204V \ ±216V \ ±228V \ ±240V DC		
Charging Current/Module	10A max		
BAT Low	Shutdown Protection		

PHYSICAL CHARACTERISTICS

Module Size (WxDxH) mm	443x580x131 / 3U		
Cabinet Size (WxDxH) mm	600x840x1400	600x840x1400	600x1100x2000
Module Net Weight (Kg)	33		
Cabinet Net Weight (Kg)	157	169	306

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