T-6003 (MODULAR SERIES)
THREE PHASE - 300 to 600 kVA

i-power®
Technology You Can Rely On

CE RoHS

STANDARD MAINTENANCE BYPASS

FEATURES

- **Wide Input Voltage Range**
  138-485Vac
- **High Efficiency**
  96% 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
- **Flexible Battery Configuration**
  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 critcal 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	MH3300U15000S	MH3400U15000S	MH3500U15000S	MH3600U15000S
Cabinet Capacity (KVA)	300	400	500	600
Module	MH3050M10000S			
Module Capacity	50KVA / 50KW			
UPS Structure	Online Double Conversion			
Appearance	Standard Telecom Cabinet with Modular Structure Design			
Overall Efficiency	>96%			
Noise (In 2 metres)	<70dB			
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			
Parallel Redundancy	Modular Parallel upto 12 Units, Available for Rack Parallel			
Protections	Overload, Short-Circuit, Over Temperature, Utility Power Voltage High/Low, BAT Voltage High/Low			
DC Start	Available			
Generator Compatibility	Available			
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	380/400/415Vac+N+W, 3 Phase
Input Voltage Range	138Vac to 485Vac
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
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: 380/400/415×(1±1%) AC or Phase Voltage: 220×(1±1%) AC
Output Power Factor	1
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 50×(±0.2)Hz 50Hz±0.2% (BAT Mode)
Distortion	<1%(Linear Full Load), <3%(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 60 mins; >125% More than 10 mins; >150%: More than 60 seconds then transfer to bypass
Crest Ratio	3:1
Efficiency	>96%
Short-Circuit	Circuit Auto Protection, Bypass Switch Tripping
Output Abnormal	INV. Output Auto-Locked Protection

BATTERY SPECIFICATION

Cabinet Model	MH3300U15000S	MH3400U15000S	MH3500U15000S	MH3600U15000S
Cabinet Capacity (KVA)	300	400	500	600
Module	MH3050M10000S			
Module Capacity	50KVA / 50KW			
Type	Sealed Lead Acid Maintenance Free			
VDC	±180 / 192 / 204 / 216 / 228 / 240 / 252 / 264 / 276 / 288 / 300 VDC			
Charging Current/Module	20A max			
BAT Low	Shutdown Protection			

PHYSICAL CHARACTERISTICS

Module Size (W×D×H) mm	440x620x130 / 3U			
Cabinet Size (W×D×H) mm	600×850×2000	600×850×2000 (Standard) 1200×850×2000 (Full-Size)	1200x850x2000 (Full-Size)	
Module Net Weight (Kg)	32			
Cabinet Net Weight (Kg)	260	280 / 600	645	720

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