# T-6003 (MODULAR SERIES)
## THREE PHASE - 30 to 300 kVA

i-power®
Technology You Can Rely On

CE RoHS

## 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%)<br>Bypass Protection lower limit: -45%(Adjustable - 20%, -30%)<br>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: 380×(1±1%) AC or Phase Voltage: 220×(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 50×(±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 (W×D×H) mm | 443×580×131 / 3U | | |
| Cabinet Size (W×D×H) mm | 600×840×1400 | 600×840×1400 | 600×1100×2000 |
| Module Net Weight (Kg) | 33 | | |
| Cabinet Net Weight (Kg) | 157 | 169 | 306 |