



40 - 1500 kVA

MTI500 MODULAR UPS SERIES

UNINTERRUPTIBLE POWER SUPPLIES



3 phase in / 3 phase out

MTI500 series modular, online UPS ranging from 40kVA to 500kVA is designed to protect any critical load for medium and large data center achieving maximum availability.

The MTI500 Modular Ups Series feature the latest technology of 3 level technology and PFC input control, which guarantees high efficiency of 96% and ultra-reliability. Its compact design ensures power density of 500kVA in one cabinet, 3 units can be paralleled for capacity redundancy up to 1500kVA, making it an excellent choice for medium and large facilities.

GENERAL SPECIFICATIONS

Compact design

500kVA in one cabinet, footprint less than 1.5m², saving valuable room space

High power density

50kVA power module in 4U height, easy for capacity expansion

High efficiency

Advanced 3-level technology guarantees high efficiency operating in double conversion mode up to 96%

Intelligent charging management

The system intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery.

High scalability

The system can be configured from 40kVA to 500kVA in one single cabinet, 3 units in parallel for a capacity up to 1500kVA

Friendly HMI

10.4" touch color LCD with graphic display, independent LCD for each power module

Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency





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TECHNICAL SPECIFICATIONS

| MODEL | MTI-5400/40 | MTI-5500/50 |
|---------------------------------|---|---|
| Capacity | 40 - 1500kVA | |
| Power module type | TPM40 (40kVA/40kW) | TPM50 (50kVA/45kW) |
| INPUT | | |
| Phase | 3P + N + G | |
| Voltage | 380V/400V/415VAC (Phase - Phase) | |
| Frequency | 50Hz/ 60Hz | |
| Power factor | > 0.99 | |
| THDi | < 3% @ 100% linear load | |
| Voltage range | 304~478Vac (Line-Line),full load 228V~304Vac (Line-Line), load decrease linearly according to the min. phase voltage | |
| Frequency range | 40Hz / 70Hz | |
| OUTPUT | | |
| Voltage | 380V/400V/415V | |
| Voltage regulation | 1.5% | |
| Voltage THD | < %1 (linear load), < %5,5 (non-linear load) | |
| Power factor | 1 | 0.9 |
| Crest factor | 3:1 | |
| Overload capability | 110% for 1 hour, 125% for 10 minutes, 150% for 1 minute, > 150% for 200ms | |
| BATTERY | | |
| Voltage | ± 240VDC for 40 batteries (selectable battery number 36-44) | |
| Charge power | 20%*System power | |
| Charge voltage precision | ±1% | |
| SYSTEM | | |
| Paralleling | Up to1500kVA | |
| System efficiency | Normal mode (AC/AC) from 30% to 100% load 96% efficiency; ECO mode: 99%; Battery mode: 96% | |
| Display | 10.4" Color touch screen LCD + LED + Keyboard | |
| IP class | IP20 | |
| Interface | Standard: RS232, RS485, USB, Dry contacts (programmable); Optional: SNMP, AS400, Parallel kit, Battery cold start (standard for 250kVA and above), Lightning protection components, Dust filter, LBS | |
| Operation / Storage temperature | 0 ~ 40°C / -25 ~ 70°C | |
| Relative humidity | 0 ~ 95% (non-condensing) | |
| Noise level | 72dB @ 100% load (1 meter away), 69dB @ 45% load (1 meter away) | |
| PHYSICAL SPECIFICATIONS | | |
| Net weight (kg) | Cabinet | 2-Slot Cabinet: 210 / 4-Slot Cabinet: 350 / 6-Slot Cabinet: 490 / 10-Slot Cabinet: 900 |
| | Power module | 44 |
| Dimensions (mm) HxWxD | Cabinet | 2-Slot Cabinet: 1150x600x980, 4-Slot Cabinet: 1600x650x960 6-Slot Cabinet: 2000x650x960, 10-Slot Cabinet: 2000x1300x1100 |
| | Power module | (4U)178x510x700 |