

MTI500 MODULAR UPS

50-500kVA

DSP Control

Smart Sleep Function

Graphic LCD Display



MTI500 Modular UPS are online devices produced with 3-level and DSP technology that provide low THD with high input power factor designed for sensitive loads. Thanks to its hot-swappable modular structure, it has the flexibility to operate at powers between 40 and 500kVA with a single cabinet. It offers the most suitable power solutions for large data centers and sensitive electronic devices. Thanks to its parallelizable design, which takes up less space, it provides the opportunity to reach 1500kVA in an area of less than 4 m2. It stands out with its rack type design, high power density, user-friendly interface, independent LCD for each power module in addition to 10.4 inch graphical touchscreen, smart sleep function, self-aginng, and smart charge management.

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 50kVA 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

TECHNICAL SPECIFICATIONS

MODEL		MTI-5100/50	MTI-5200/50	MTI-5300/50	MTI-5500/50
System capacity		100kVA	200kVA	300kVA	500kVA
Power module capacity		TPM50 (50kVA/50kW)			
INPUT					
Dual input	Standard			Optional	Standard
Phase	3 Phases + Neutral + Ground, 380V/400V/415V (line-line)				
Voltage range	304~478VAC (line-line), full load; 228V~304VAC (line-line), load decreases linearly according to the min. phase voltage				
Rate frequency	50Hz/60Hz				
Frequency range	40Hz/70Hz				
Power factor	> 0.99				
THDi	< 3% @ 100% linear load				
BYPASS					
Rate voltage	380/400/415VAC (Line-Line)				
Rated frequency	50Hz/60Hz				
Input voltage range	Settable, -40% ~ +25%				
By-pass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz				
Bypass overload	125%, long time operation < 130% for 10 minutes < 150% for 1 minutes >150% for 300ms			110% long term operation < 130% for 10 minutes < 150% for 1 minutes >150% for 1 ms	
OUTPUT					
Rate voltage	380/400/415VAC (line-line)				
Voltage regulation	1% for balance load;1.5% for unbalance load				
Rated frequency	50Hz/60Hz				
Frequency precision	0.1%				
Output power factor	1.0				
Output THDu	< 1%, Linear load; <5.5% Non-linear load				
Crest factor	3:1				
Inverter overload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms				
BATTERY					
Voltage	±240VDC				
Battery number	40pcs (Settable: even number from 32 to 44)				
Voltage precision	±1%				
Charge power	up to 20% Output active power				
Battery cold start	Optional			Standard	
SYSTEM					
System efficiency	AC Mode: 96.0% ECO Mode: 99.0% Battery Mode:96.0%				
Display	10.4" touch screen LCD+LED+keyboard				
IP class	IP20				
Interface	RS232, RS485, Programmable Dry Contact, USB				
Option	SNMP Card, Parallel kit, SPD, LBS, Dust filter				
Temperature	Operation: 0~40°C Storage: -40~70°C				
Relative humidity	0~95% (non-condensing)				
Altitude	< 1000. Within 1000m to 2000m, power derate 1% for every 100m rise				
Acoustic noise	72dB @ 100% load, 69dB @ 45% load				
Application standards	Safety: IEC/EN 62040-1, EMC:IEC/EN 62040-2, Performance: IEC/EN 62040-3				
PHYSICAL					
Net weight (kg)	Cabinet	120	170	220	450
	Power module	45			
Dimension (HxWxD)	Cabinet	1150x600x980	1600x650x960	2000x650x1095	2000x1300x1100
	Power module	178x510x700			