MTI500 MODULAR UPS

50-500kVA

DSP Control

Smart Sleep Function

Graphic LCD Display

MODULAR UPS | VFI TYPE — UPS ONLINE | 1.0 POWER FACTOR | SERVICE / TECH. SUPPORT | USB

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-agigng, 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 quarantees 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: 0~40ºC Storage: -40~70ºC			
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			