

MTI1000 MODULAR UPS

600kVA

High Efficiency, Up to 96%

Support Lithium Battery

Fully Digital Control



MODULAR UPS



UPS ONLINE



POWER FACTOR

SERVICE /
TECH. SUPPORT

USB



GENERAL SPECIFICATIONS

LOW-CARBON & GREEN

This series 3 level inverter, fully digital control. Achieving the input power factor ≥ 0.99 , input THDi $\leq 3\%$, leading overall efficiency up to 96%

HIGH POWER DENSITY

- The 600kW system can reach to 3.2MW.
- Power module: the single module power density 100kW/4U.
- Meet the large data center application site.

LCD SCREEN WITH IOT & INTELLIGENT MONITORING

- 10-inch color touch screen with new display style.
- Support IOT and intelligent data monitoring.
- Provide users intuitive display while reducing human fault.
- Record maximum 2000 history logs

ALL-ROUND INTELLIGENT DETECTION

- Monitoring the operating status of critical component, able to set early warning.
- Record the rectifier/inverter abnormal info of the power module and catch the waveform which can be exported to computer by USB.

WIDE RANGE OF THE BATTERY NUMBER

- Support 30-48 pcs batteries (settable).
- Shared battery pack in parallel UPS system.
- Support Lithium battery.
- Battery N line free patent.
- Saving power distribution switch and instruction cost. Therefore, it becomes more flexible for customer.

HIGH SYSTEM CAPACITY UP TO 3.2MW

Power Module

There are 6 slots for power modules, easily achieve module redundancy.

UPS Parallel

Parallel Unit maximum: 4 cabinets.

Total capacity reach to 3.2MW.

Standard Cabinet

There are 5/6/8 slots UPS standard cabinets.

TECHNICAL SPECIFICATIONS

MODEL		MT110600/100
System capacity		600kVA
Power module capacity		TPM100X1 (100kVA/100kW)
INPUT		
Dual input		Optional
Phase		3Phase+Neutral+Ground, 380/400/415VAC (line-line)
Rate frequency		50Hz/60Hz
Voltage range		323~478Vac (line-line), full load; 323V~191Vac (line-line), load decrease linearly from 100%~40%; 191V~138V (line-line), load decrease linearly from 45%~35% according to the min phase voltage
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, default -20% ~ +15% Up limit: +10%, +15%, +20%, +25% Down limit: -10%, -15%, -20%, -30%, -40%
By-pass frequency range		Selectable, ± 1 Hz, ± 3 Hz, ± 5 Hz
Bypass overload		110% long term operation; 110% ~ 125% for 5 mins; 125% ~ 150% for 1 min; 150% ~ 400% for 1 s; >400% less than 200ms
OUTPUT		
Rate voltage		380/400/415VAC (line-line)
Rated frequency		50Hz/60Hz
Output power factor		1.0
Voltage regulation		$\pm 1\%$
Output THDu		<1% Linear load; <5%, Non-linear load
Inverter overload		<110%, 1hour; 110%~125%, 10mins; 125%~150%, 1min; >150%, 200ms
Frequency precision		$\pm 0.1\%$
BATTERY		
Voltage		$\pm 180 \sim 288$ VDC 30~32pcs derate to 0.7; 34~36pcs derate to 0.8; 38pcs derate to 0.9; 40~48pcs
Voltage precision		$\pm 1\%$
Charge power		Up to 15% * Output active power
SYSTEM		
Efficiency	AC Mode	>96%
	Battery Mode	>95%
Display		LED+ Color touch LCD screen
Interface		RS485, USB, CAN, Programmable Dry Contact, 2 Intelligent slots
Option		SNMP Card, AS400 Card, Parallel kit, dual input kit, SPD, LBS, GSM
Temperature		Operation: 0~40°C Storage: -40~70°C
Relative humidity		0~95% Non-condensing
Noise(1 meter)		75dB @ 100% load, 70dB @ 45% load
Altitude		<1000m. Within 1000~2000m, 1% power derating for every 100m rise
PHYSICAL		
Dimension (WxDxH)	Cabinet	1000 x 1100 x 2000
	Power module	440 x 794.5 x 174
Net weight (kg)	Cabinet	500
	Power module	50