

# MTI1000 MODULAR UPS

## 600kVA

High Efficiency, Up to 96%

Support Lithium Battery

Fully Digital Control



MODULAR UPS

VFI  
TYPE

UPS ONLINE

1.0

POWER FACTOR

SERVICE /  
TECH. SUPPORT

USB



## GENERAL SPECIFICATIONS

The MTI Series modular online UPS the single cabinet power rating covers from 100kVA to 600kVA, provides the highest power density of 100kW power modules in 4U height, 5 units can be paralleled for capacity maximum up to 3MW.

With the communication of BMS system, the MTI series deliver the Lithium battery information of cell voltage and cell temperature.

## APPLICATION

All kinds of medium and large data center, network servers, control system, precision instruments, communication system etc.

## FEATURES

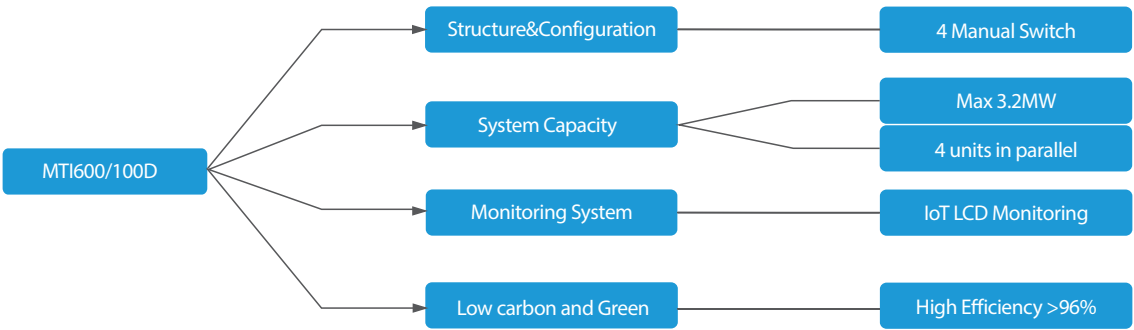
- High efficiency, up to 96%
- Support Lithium battery
- Easy for power expansion and backup time expansion flexible and save more energy
- Modular design, up to 30 power modules in parallel online hot-swappable N+X redundancy
- High power density
- BMS lithium battery data can be seen on the screen of UPS after choosing the corresponding protocol
- Friendly interface with 10" touch color LCD with graphic display, intuitive information and easier to operate
- All round detection and monitoring system for safety

HIGH DENSITY, MODULAR, SCALABLE

- High power density, footprint for 600kW is 1.1m2, power density 545kW/m2, saving valuable data center space
- Scalable from 100kVA to 3MW, max 30 power modules in parallel

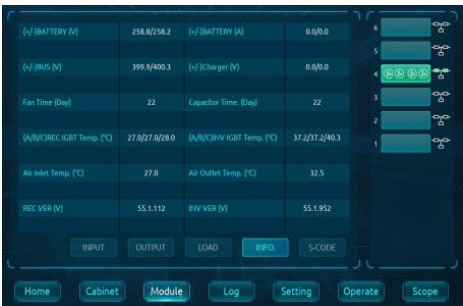


4 units in parallel



FRIENDLY INTERFACE

Provide graphical and text based information of alarms, status data, and instructions that users can have more friendly display and safer operation from this 10 inch color touch LCD screen for IoT application and intelligent monitoring.



## IMPACT STRUCTURE DESIGN

This series Modular UPS is equipped with hot-swappable power module and bypass & monitoring modules which is designed for easy maintenance and redundancy. 100kVA power capacity in 4U high module, combine with bypass module which is integrated various communication port.



### Reliable Performance

3 level inverter, fully digital control, achieving input power factor >0.99, input THDi <3%, overall efficiency >96%.

### Small Size Large Capacity

High power density, easy to expand to meet the larger data center application site.

### Four Breakers

Equipped with input, bypass, output and maintenance bypass switch to save later construction.



### Kinds of Cabinets

6 slots cabinet, flexible configuration for different project requirements and limit of the room space.

### Various Data Transfer Port

Adequate ports, such as RS485, USB, CAN, programmable dry contact and SNMP card.

- Convenient Software Burning & Upgrade Version burning software without outage to the load, no need to pulling out the module.





## 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		50/60Hz
Voltage range		323~478Vac (line-line), full load; 323V~138Vac (line-line), load decrease linearly 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		Settable, $\pm 1$ Hz, $\pm 3$ Hz, $\pm 5$ 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		50/60Hz
Output power factor		1.0
Voltage regulation		$\pm 1\%$
Output THDu		<1% , Linear load, <5% , Non-linear load
Inverter overload		<110% for 1 hour; 110%~125% for 10 mins; 125%~150% for 1 min; >150% for 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	400
	Power module	53.5