

MTI600 MODULAR UPS

600kVA

High Efficiency, Up to 97%

Support Lithium Battery

High Power Density



MODULAR UPS



UPS ONLINE



POWER FACTOR

SERVICE /
TECH. SUPPORT

USB



MTI600 series are modular online UPS with brand-new topology, a bidirectional DC-DC converter circuit, which greatly improve the system performance and guarantees high efficiency.

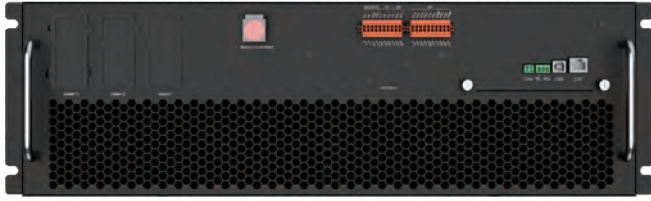
Its compact design ensures the power density, achieve this 600kW system occupies only an area of 0.9m². RM series is considered to be an excellent power supply solution for large data centers and facilities.

GENERAL SPECIFICATIONS

- High efficiency, up to 97%
- Support Lithium battery
- Intelligent staggering power consumption, become more flexible and save more energy
- Double side DC-DC topology platform, support charging power reaching 30%
- High power density
- Standard TOP /REAR entry (Optional Bottom/ Rear entry)
- The system can be used as a frequency converter with 380VAC/50Hz input and 415VAC/60Hz output without power derate.
- BMS lithium battery data can be seen on the screen including the temperature and voltage of each cell
- Friendly interface with 10" touch color LCD with graphic display, intuitive information and easier to operate
- Modular design, up to 30 power modules in parallel online hot-swappable N+X redundancy

BYPASS MONITORING MODULE

This series are equipped with the bypass and monitoring module full of intelligent slots, communication interface, battery cold start buttons and adequate dry contacts. With these various ports, it can satisfy users a convenient data transfer service, provide comprehensive monitoring.



- Diverse communication interface and multiple standard part such as RS485, USB, CAN and programmable dry contacts.
- Convenient SD card slot, easy for software burning and version upgrade after transferring to maintenance mode.
- Isolation between LCD and monitoring board, connect them by network cable, significantly improve the reliability and prevent the damage of the DSP.

POWER MODULE

The cabinet of MTI6600/60 contains 10 power modules, each of them is 60kVA power capacity in 2U height. With the knob on the front panel, the UPS can achieve hot-swappable without power outage of the load, make it available for redundancy and maintenance online.

- Modular Compact Cabinet Design contains maximum 10 slots.
- Module Status LED Indicator show the status of each power module.
- Bidirectional DC-DC converter circuit achieve 30% charger which greatly improve the system performance.
- Overall efficiency reaches 97%, the collaboration between batteries and power grid improve the UPS utilization significantly.



APPLICATION

All kinds of medium and large data center, network servers, control system, precision instruments and intelligent equipments

- Financial institution
- Education, office and PC
- Military and government
- Communications
- Medical
- Power supply manufacture

FRIENDLY INTERFACE

Provide graphical and text based information of alarms, status data, and instructions that users can have more friendly display and safer operation.



HIGH DENSITY, FLEXIBLE, ARTISTIC

- High power density, 60kW power modules and 2U-high body footprint for 600kVA is 0.88m2, power density. 682kW/m2, saving great space of data center.
- Flexible capacity expansion and redundancy from 60kVA to 1.8MW, max 30 power modules 3 cabinets in parallel.
- Ultra-large 10.1 inch color touch LCD display for IoT application and intelligent monitoring.



3 units in parallel



10 inch LCD

TECHNICAL SPECIFICATIONS

MODEL		MTI6600/60
System capacity		600kVA
Power module capacity		TPM60X1 (60kVA/60kW)
INPUT		
Dual input		Standard
Phase		3 Phases + Neutral + Ground, 380V/400V/415V (line-line)
Rate frequency		50Hz/60Hz
Voltage range		323~478Vac (line-line), full load 323V~138Vac (line-line), load decrease linearly from 100% to 30% according to the min phase voltage 323V~138Vac (line-line), battery combined power supply when load exceed the derated capacity
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, $\pm 1\text{Hz}$, $\pm 3\text{Hz}$, $\pm 5\text{Hz}$
Bypass overload		110% for long term operation; 110%~125% for 10 mins; 125%~150% for 1 min; >150% for 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% for 1min; >150% for 200ms
Rate frequency		50Hz/60Hz
Frequency precision		$\pm 0.1\%$
BATTERY		
Voltage		$\pm 180\sim 264\text{VDC}$ 30pcs derate to 0.7; 32~34pcs derate to 0.8; 36~38pcs derate to 0.9; 40~44pcs
Voltage precision		1%
Charge power		Up to 30% * Output active power
SYSTEM		
Parallel operation		Max 30 power modules 3 cabinets in parallel
Efficiency	AC Mode	>97%
	Battery Mode	>96%
Display		LED+Color touch LCD
Interface		Standard: RS485, USB, CAN, Programmable Dry Contact, Intelligent card slot*2, Extendable dry contact slot
Option		SNMP card, AS400 card, Parallel kit, SPD, Dual input kit, LBS
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 1000m~2000m, 1% power derating for every 100m
Application standards		Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3
PHYSICAL		
Dimension (HxWxD)	Cabinet	2000x800x1100
	Power module	85x550x750
Net weight (kg)	Cabinet	443
	Power module	35.7