

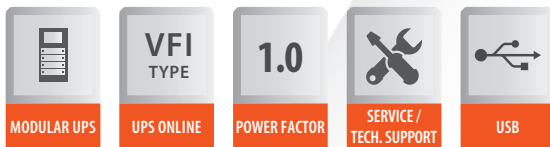
MTI600 MODULAR UPS

600kVA

High Efficiency, Up to 97%

Support Lithium Battery

High Power Density



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
- Battery neutral-free design, achieve various battery numbers and horizontal DC voltage
- 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 RM600/60D 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.

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 40% 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% for 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	0.01	
Charge power	Up to 30% * Output active power	
SYSTEM		
Efficiency	AC Mode	>97%
	Battery Mode	>96%
Display	LED+Color touch LCD	
Interface	Standard: RS485, USB, CAN, Programmable Dry Contact	
Option	SNMP card, AS400 card, Parallel kit, SPD, Dual input kit, LBS, Common battery kit	
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 (WxDxH)	Cabinet	800 x 1100 x 2000
	Power module	550 x 750 x 85
Net weight (kg)	Cabinet	443
	Power module	35.7