



20 - 200 kVA

# MTI200 MODULAR UPS SERIES

UNINTERRUPTIBLE POWER SUPPLIES

*MTI200 series is modular online UPS for sensitive equipments. The single cabinet power rating covers from 20kVA to 200kVA which delivers the best of combination of reliability, hot-swappable and flexibility.*

*With the latest IGBT 3-level technology and DSP control, MTI200 achieves a high input power factor, low THDI.*

## GENERAL SPECIFICATIONS

- Modular design with N+X redundancy
- Online hot swapping, by-pass and power module feature
- Full DSP control of high stability, reliability and safety
- 3 Level topology
- Excellent input performances for complete compatibility with input PF of 99% and wide range of voltage
- Self-Aging mode for full load test with less than 10% of the total power capacity needed
- Independent charger for batteries, intelligent battery management system
- Smart charging management system, intelligently control the whole process of the charging and discharging effectively improve the life time of the battery
- Battery cold start, UPS can be powered on from the battery without utility.
- Totally front access, top and bottom cable connection
- User friendly machine interface with touch screen
- Hot swap battery system in single cabinet up to 60kVA

3 phase in / 3 phase out





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## TECHNICAL SPECIFICATIONS

MODEL	MTI2060/20	MTI2120/20	MTI2200/20	*MTI2060/20B
Capacity	20 - 400kVA			20 - 60kVA
Power module type	TPM20 (20kVA/18kW)			
<b>INPUT</b>				
Phase	3P + N + G			
Voltage	380V/400V/415V (line to line)			
Frequency	50Hz / 60Hz			
Power factor	> 0.99			
THDI	THDI < 3% @100% linear load			
Voltage range	-20% ~ + 25%			
Frequency range	40Hz ~ 70Hz			
<b>OUTPUT</b>				
Voltage	380V/400V/415V			
Voltage regulation	±1% (Balance load); ± 1.5% (unbalance load)			
Voltage THD	THD < 1.5% (linear load ), THD < 6% (none linear load)			
Power factor	0.9			
Crest ratio	3:1			
Overload capability	110% for 1 hour; 125% for 10 minutes ;150% for 1 minute; >150% for 200ms			
<b>BATTERY</b>				
Voltage	± 240 VDC for 40 batteries (selectable battery number 36-44)			
Charge power	20%*System Power			
Charge power precision	±1%			
<b>SYSTEM</b>				
Parallel (cabinet)	6	3	2	-
System efficiency	Normal mode: 95%; ECO mode: 98%; Battery mode: 95%			
Display	LCD + LED, touch screen + keyboard			
IP class	IP20			
Interface (communication port)	Standard: RS232,RS485, Dry contacts, EPO / Optional: SNMP card			
Operation / storage temp.	0~40°C /-40~70°C			
Relative humidity	0~95% (non-condensing)			
Noise	55dB (1 meter away)			
<b>PHYSICAL</b>				
Weight (kg)	Cabinet	3-Slot cabinet:120; 6- Slot cabinet:151;10-Slot cabinet:182		3-Slot cabinet:205
	Power module	TPM20:22		
	Battery pack	-		10 (without battery)
Dimension (HxWxD) mm	Cabinet	3-Slot cabinet:1100x600x900; 6-Slot cabinet: 1600x600x900;10-Slot cabinet: 2000x600x900		3-Slot cabinet:2000x600x1020
	Power module	TPM20: (3U)134x440x590		
	Battery pack	-		(4U) 177x120x824

(\*) Single cabinet with internal batteries