



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
- Smart charging management system, intelligently control the whole process of the charging and discharging effectively improve the life time of the battery
- Independent charger for batteries, intelligent battery management system
- 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



delta



3 phase in / 3 phase out



20 - 200 kVA

## TECHNICAL SPECIFICATIONS

MODEL		MTI2060/20	MTI2120/20	MTI2200/20	*MTI2060/20B
Capacity		20 - 400kVA			20 - 60kVA
Power module type		TPM20 (20kVA/18kW)			
INPUT					
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			
OUTPUT					
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			
BATTERY					
Voltage		± 240 VDC for 40 batteries (selectable battery number 36-44)			
Charge power		20%*System Power			
Charge power precision		±1%			
SYSTEM					
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 temperature		0~40°C /-40~70°C			
Relative humidity		0~95% (non-condensing)			
Noise		55dB (1 meter away)			
PHYSICAL					
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 (mm) HxWxD	Cabinet	3-Slot cabinet:1100x900x600; 6-Slot cabinet: 1600x900x600;10-Slot cabinet: 2000x900x600			3-Slot cabinet:2000x600x1020
	Power module	TPM20: (3U)134x440x590			
	Battery pack	-			(4U) 177x120x824

(\*) Single cabinet with internal batteries