

MTI300 MODULAR UPS

30-900kVA

DSP Control

Smart Sleep Function

Graphic LCD Display



MODULAR UPS



UPS ONLINE



POWER FACTOR

SERVICE /
TECH. SUPPORT

USB



MTI300 Modular UPS are online devices produced with 3-level and DSP technology that provide low THD with high input power factor designed for sensitive loads. Thanks to its hot-swappable modular structure, it has the flexibility to operate at powers between 20 and 600kVA with a single cabinet. It offers the most suitable power solutions for large data centers and sensitive electronic devices. Thanks to its parallelizable design, which takes up less space, it provides the opportunity to reach 900kVA in an area of less than 2 m². It stands out with its rack type design, high power density, user-friendly interface, independent LCD for each power module in addition to 10.4 inch graphical touchscreen, smart sleep function, self-aging, and smart charge management.

GENERAL SPECIFICATIONS

- 3 Level topology
- Modular design with N+X redundancy
- Online hot swapping, by-pass and power module feature
- Optional dual input
- High power density with footprints of less than 2m² up to 900kVA in parallel, 30kVA power module with only 3U height
- High power density of 600kVA in one single cabinet, 30kVA power module with only 3U height
- Green and energy saving: AC/AC efficiency > 95%, input power factor > 0.99 while input THDi < 3%
- Full DSP control of high stability, reliability and safety
- Integrated IGBT module with improved performance and reduced size
- Smart Sleeping mode for energy saving and prolong the life time of the system
- 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
- Optimized battery management, 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
- Automatically record the critical wave information when fault happens, easy for trouble shooting
- Independent LCD display for each power module with self-starting function
- Programmable dry contacts, the function of each port can be defined by users
- Friendly human machine interface with colorful touch screen of 10.4 inches

TECHNICAL SPECIFICATIONS

MODEL		MTI3180/30	MTI3300/30	MTI3600/30
Capacity		30 - 900kVA	30 - 600kVA	
Power module type		TPM30 (30kVA/27kW)		
INPUT				
Phase		3 Phases + Neutral + Ground		
Voltage		380V/400V/415V (line to line)		
Frequency		50Hz / 60Hz		
Power factor		> 0.99		
THDI		THDi < 3% @ 100% linear load		
Voltage Range		304~478Vac (Line-Line),full load 228V~304Vac (Line-Line),load decrease linearly according to the min phase voltage		
Frequency range		40Hz~70Hz		
OUTPUT				
Voltage		380V/400V/415V		
Voltage regulation		1.5%		
THDu		THD < 1% (linear load), THD < 6% (none linear load)		
Power factor		0.9		
Crest factor		3:1		
Overload capability		1 hour for 110% load; 10 minutes for 125% load; 1 minutes for 150% load; 200ms for > 150% load		
BATTERY				
Voltage		± 240 VDC for 40 batteries (selectable battery number 36-44)		
Charge power		20%*System Power		
Charge voltage precision		± 1%		
SYSTEM				
Parallel (cabinet)		5	3	-
System efficiency		Normal mode: 95%; ECO mode: 99%; Battery mode: 95%		
Display		10.4" LCD + LED, Color 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		65dB @100% load, 62dB @ 45% load (1 meter away)		72dB @100% load, 68dB @ 45% load (1 meter away)
PHYSICAL				
Net weight (kg)	Cabinet	6-Slot Cabinet: 165	10-Slot Cabinet: 220	10-Slot Cabinet: 660
	Power module	TPM30kVA: 34		
Dimension (mm) HxWxD	Cabinet	6-Slot Cabinet: 1600x600x1100	10-Slot Cabinet: 2000x600x1100	20-Slot cabinet: 2000x2000x1050
	Power module	TPM30kVA: (3U) 134x460x790		