

3 phase in / 3 phase out

30 - 900 kVA

# MTI300 MODULAR UPS SERIES

UNINTERRUPTIBLE POWER SUPPLIES

*The MTI300 Series Modular UPS provides the most compact footprint of less than 2m<sup>2</sup> with maximum capacity of 900kVA. MTI300/30kVA is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.*

*The MTI600 Series Modular UPS provides power capacity of 600kVA in one single system. With the most advanced full DSP control technology, health management system and smart monitoring system, it has been proven to be the best choice for large data centers, as well as for sensitive electronics.*

## 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 2m<sup>2</sup> 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
- 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 Sleeping mode for energy saving and prolong the life time of the system
- 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
- User friendly machine interface with colorful touch screen of 10.4 inches



Tescom®

CE



30 - 900 kVA

# TECHNICAL SPECIFICATIONS



MODEL	MTI3180/30	MTI3300/30	MTI3600/30	
Capacity	30 - 900kVA	30 - 600kVA		
Power module type	TPM30 (30kVA/27kW)			
<b>INPUT</b>				
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			
<b>OUTPUT</b>				
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			
<b>BATTERY</b>				
Voltage	± 240 VDC for 40 batteries (selectable battery number 36-44)			
Charge power	20%*System Power			
Charge voltage precision	± 1%			
<b>SYSTEM</b>				
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	Standard: RS232, RS485, Dry contacts, USB; Optional: SNMP			
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)	
<b>PHYSICAL</b>				
Net weight (kg)	Cabinet	6-Slot Cabinet: 165	10-Slot Cabinet: 220	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		