

# MTR MODULAR UPS

## 10-90kVA

Flexible Configuration

Smart Sleep Function

Graphic LCD Display



## GENERAL SPECIFICATIONS

### Rack modular design

Modular design, compatible with 19" standard rack cabinet, convenient to be integrated with servers

### High power density

10/15kVA (10/15kW) power module in 2U height, saving great amount of space, easy for capacity expansion

### Integrated solution for data center

UPS can be integrated with battery cabinet, PDU and external maintenance bypass, offering excellent choice for data center

### Intelligent charging management

The system intelligently control the whole process of the charging and discharging, effectively improving the life time of the battery

### Flexible configuration

The system can be configured to 3/3, 3/1 and 1/1 without derating

### Friendly interface

7" touch color LCD with graphic display, more information displayed and easier for customer to operate

### Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

### Self-aging mode

Energy internal circle technology, system can run with full load ,saving more than 90% energy

## TECHNICAL SPECIFICATIONS

MODEL	MTR-020/10X	*MTR-030/10X	MTR-040/10X	MTR-060/10X	MTR-030/15X	*MTR-045/15X	MTR-090/15X	
Power (kVA)	20kVA/20kW	*30kVA/30kW	40kVA/40kW	60kVA/60kW	30kVA/30kW	*45kVA/45kW	90kVA/90kW	
Power module type	TPM10X (10kVA/10kW)				TPM15X (15kVA/15kW)			
<b>INPUT</b>								
Phase	(1/1P - 3/1P - 3/3P) 3P+ N + G (380/400/415V) ~ 1P + N + G (220/230/240V)				3P+ N + G (380/400/415V)			
Voltage range	304-478Vac (line-line),100% load;							
	228-304Vac load derated from 100% - %75 linearly							
Frequency range	40Hz-70Hz							
Power factor	> 0.99							
THDi	** THDi < 4% @ 100% linear load							
<b>OUTPUT</b>								
Voltage	(1/1P - 3/1P - 3/3P) 3P+ N + G (380/400/415V) ~ 1P + N + G (220/230/240V)				3P+ N + G (380/400/415V)			
Voltage regulation	1.5%							
Power factor	1							
THDu	THD < 1% (linear load ),THD < 5.5% (non-linear load)							
Crest factor	3:1							
Overload capacity	110% for 1 hour; 125% for 10 min; 150% for 1 min ; 150% for 200 ms							
<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>								
System efficiency	Normal mode: 95%; ECO mode: 98%; Battery mode: 94.5%							
Display	7.0" Color touch screen LCD + LED + Keyboard							
IP Class	IP20							
Interface	Standart: RS232, RS485, dry contacts							
	Optional: Expansion dry contact card							
Operation / Storage temperature	0-40°C/-25-70°C							
Relative humidity	0-95% (non-condensing)							
Noise level	56dB (1 meter away)				58dBA (1 meter away)			
Options	Parallel operation, Battery compansated battery charging, Movable cabinet with castors							
<b>PHYSICAL</b>								
Weight (kg)	Cabinet	42	55	51	85	42	55	85
	Power module	15.3				15.5		
Dimension (HxWxD)	Cabinet	398x485x697	575x485x751	575x485x697	1033x485x751	398x485x697	575x485x751	1033x485x751
	Height	7U	11U	11U	21U	7U	11U	21U
	Power module	(2U) 85x436x590						
(*) Parallel operation								
(**) Only for 3/3 phase								