



10 - 90 kVA

MTR MODULAR UPS SERIES

UNINTERRUPTIBLE POWER SUPPLIES

1-1, 3-1, 3-3 Phase Input-Output

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



delta®

CE



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TECHNICAL SPECIFICATIONS

MODEL	MTR-020/10X	*MTR-030/10X	MTR-040/10X	MTR-060/10X	MTR-030/15X	*MTR-045/15X	MTR-090/15X	
Capacity	PM10X (10kVA/10kW)				PM15X (15kVA/15kW)			
INPUT								
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							
OUTPUT								
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							
BATTERY								
Voltage	± 240 VDC for 40 batteries (selectable battery number 36-44)							
Charge power	20%* System power							
Charge voltage precision	±1%							
SYSTEM								
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: SNMP, Expansion dry contact card							
Operation / storage temperature	0-40°C/-25-70°C							
Relative humidity	0-95% (non-condensing)							
Noise level	56dBA (1 meter away)				58dBA (1 meter away)			
Options	Parallel operation, Battery compensatsed battery charging, Movable cabinet with castors							
PHYSICAL								
Weight (kg)	Cabinet	42	55	51	85	42	55	85
	Power module	15.3				15.5		
Dimension (HxWxD)mm	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