

MPM3300E Subrack Modular Series

Online Transformerless UPS series
Power range : 10~150kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output
Module: 10/15/20/25/30/40/50kVA



Stand-alone installation
with wheels as standard,
for easy movement.



Rack-mounted installation
compact design,
saving valuable unit space.



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Modular design

- All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated in MDC or customized cabinet.
- Power module, Bypass module, Monitoring module, ECU control module, all these modules are hot-swappable.

High reliability

- Wide input voltage range, line voltage range is 138–485V, UPS will derate to 40% when input voltage is below 305V.
- UPS adopts multiple digital bus and redundancy parallel control system, making sure the whole system keep online if any single circuit fail.
- The UPS will keep on single or parallel working, if any module fail.
- Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust, salt spray.

Green and power saving

- High input power factor, it is up to 0.99.
- 3-level topology design, efficiency is up to 96%.
- THDi<3% (100% linear load).
- The UPS will work in sleeping mode when the load is very small.

LBS function

- LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system.

Parallel redundancy function

- Support parallel expanded operation: maximum is 6 units
- Support sharing batteries for the UPS in parallel.

Flexible battery configuration

- Batteries number of each group can be selected from 30 pieces to 50 pieces.
- Large charging current can meet the requirement of long time backup.

Strong load capacity

- Output power factor is 1.0, UPS can supply power to 100% unbalanced load.
- High adaptability for load, it can connect full inductive load or capacitive load.

Intelligent management

- Standard colorful touch screen.
- Support recording and exporting history logs and fault logs.
- Support SNMP, RS232, RS485, BMS, Dry contact interface.
- Support upgrade of CAN of power module inside of cabinet.
- EPO & REPO function.

Compatible with generator

- Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator.

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Technical Specifications:

Module Model	MPM3300E-RM-10		
Cabinet Model	MPM3300E-RM-20	MPM3300E-40	MPM3300E-60
Cabinet capacity (VA)	10k~20k	10k~40k	10k~60k
Module capacity (VA)		10k	
Max. number	2	4	6
Module Model	MPM3300E-RM-15		
Cabinet Model	MPM3300E-30	MPM3300E-60	MPM3300E-90
Cabinet capacity (VA)	15k~30k	15k~60k	15k~90k
Module capacity (VA)		15k	
Max. number	2	4	6
Module Model	MPM3300E-RM-20		
Cabinet Model	MPM3300E-40	MPM3300E-80	MPM3300E-120
Cabinet capacity (VA)	20k~40k	20k~80k	20k~120k
Module capacity (VA)		20k	
Max. number	2	4	6
Module Model	MPM3300E-RM-25		
Cabinet Model	MPM3300E-50	MPM3300E-100	MPM3300E-150
Cabinet capacity (VA)	25k~50k	25k~100k	25k~150k
Module capacity (VA)		25k	
Max. number	2	4	6
Module Model	MPM3300E-RM-30		
Cabinet Model	MPM3300E-60	MPM3300E-120	MPM3300E-150
Cabinet capacity (VA)	30k~60k	30k~120k	30k~150k
Module capacity (VA)		30k	
Max. number	2	4	5+1
INPUT			
Nominal voltage	380/400/415Vac, (3Ph+N+PE)		
Operating voltage range	138~305Vac for 40% load; 305~485Vac for 100% load		
Operating frequency range	40Hz~70Hz		
Power factor	≥0.99		
Harmonic distortion (THDi)	≤3% (100% linear load)		
Bypass voltage range	Max. voltage:220V: +25% (optional+10%, +15%, +20%); 230V: +20% (optional +10%, +15%); 240V: +15% (optional +10%) Min. voltage: -45% (optional-10%, -15%, -20%, -30%)		
Bypass frequency range	Frequency protection range: ± 10%		
Power Walk In	Support		
Generator input	Support		
OUTPUT			
Rated voltage	380/400/415Vac, (3Ph+N+PE)		
Power factor	1.0		
Voltage regulation	± 1%		
Output frequency	Synchronize with input, when the input frequency > ± 10% (± 1%/ ± 2%/ ± 3%/ ± 4%/ ± 5% optional), output 50/60 (± 0.1Hz)		
Crest factor	(50/60 ± 0.1%)Hz 3:1		
Harmonic distortion (THDv)	≤ 1% with linear load; ≤ 3% with nonlinear load		
Efficiency	up to 95.8%		
BATTERY			
Battery voltage	Optional Voltage: ± 180/192/204/216/228/240/252/264/276/288/300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs optional); 360Vdc~600Vdc (30~50 pcs, 36 pcs default, 36~50 pcs no power derating; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8)		
Power module charge current	18A (Max.)		
SYSTEM FEATURES			
Transfer time	Utility to Battery : 0ms; Utility to Bypass: 0ms		
Overload	≤ 110%, 60min; ≤ 125%, 10min; ≤ 150%, 1min; to bypass. > 150% Shut down Immediately.		
Overheat	135% overload for long term; >1000% overload for 100 ms		
Low battery voltage	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately		
Self-diagnostics	Alarm and Switch off		
Backfeed protection	Upon Power On and Software Control		
EPO (optional)	Support		
Battery	Shut down UPS immediately (turn to bypass optional)		
Noise suppression	Advanced Battery Management		
Audible & visual alarms	Complies with EN62040-3		
Status LED & LCD display	Line Failure, Battery Low, Overload, System Fault		
Reading on the LCD display	Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault		
Communication interface	Input, Output, Battery, Command, Setting, Maintenance		
	RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card(optional), SNMP card(optional), Battery temperature sensor(optional)		
ENVIRONMENTAL			
Operating temperature	0°C ~ 40°C		
Storage temperature	-25°C ~ 55°C		
Humidity range	0 ~ 95% (non condensing)		
Altitude	<1500m, derating required when >1500m		
Noise level	<58dB	<60dB	<62dB
PHYSICAL			
Dimension	UPS cabinet	485 × 850 × 353 (8U)	485 × 850 × 752 (17U)
W × D × H (mm)	Power module	440 × 620 × 86 (2U)	
Net weight (kg)	UPS cabinet	69	98
	Power module	10kVA: 19; 15~30kVA: 21	
STANDARDS			
Safety	IEC/EN62040-1, IEC/EN62477-1		
EMC	IEC/EN62040-2 (IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8)		

Specifications are subject to change without prior notice.

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Technical Specifications:

Module Model	MPM3300E-RM-40			MPM3300E-RM-50		
Cabinet Model	MPM3300E-80	MPM3300E-120	MPM3300E-100	MPM3300E-100	MPM3300E-150	MPM3300E-150
Cabinet capacity (VA)	40k~80k	40k~120k	50k~100k	50k~100k	50k~150k	50k~150k
Module capacity (VA)	40k			50k		
Max. number	2+1	3		2+1	3	
INPUT						
Nominal voltage	380/400/415Vac, (3Ph+N+PE)					
Operating voltage range	138~305Vac for 40% load; 305~485Vac for 100% load					
Operating frequency range	40Hz~70Hz					
Power factor	≥0.99					
Harmonic distortion (THDi)	≤3% (100% linear load)					
Bypass voltage range	Max. voltage:220V: +25% (optional+10%, +15%, +20%); 230V: +20% (optional +10%, +15%); 240V: +15% (optional +10%) Min. voltage: -45% (optional-10%, -15%, -20%, -30%)					
Bypass frequency range	Frequency protection range: ± 10%					
Power Walk In	Support					
Generator input	Support					
OUTPUT						
Rated voltage	380/400/415Vac, (3Ph+N+PE)					
Power factor	1.0					
Voltage regulation	± 1%					
Output frequency	Synchronize with input, when the input frequency > ± 10% (± 1%/ ± 2%/ ± 3%/ ± 4%/ ± 5% optional), output 50/60 (± 0.1Hz)					
Crest factor	3:1					
Harmonic distortion (THDv)	≤ 1% with linear load; ≤ 3% with nonlinear load					
Efficiency	up to 96%					
BATTERY						
Battery voltage	Optional Voltage: ± 180/192/204/216/228/240/252/264/276/288/300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs optional); 360Vdc~600Vdc (30~50 pcs, 36 pcs default, 36~50 pcs no power derating; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8)					
Power module charge current	20A (Max.)					
SYSTEM FEATURES						
Transfer time	Utility to Battery : 0ms; Utility to Bypass: 0ms					
Overload	Line mode ≤ 110%, 60min; ≤ 125%, 10min; ≤ 150%, 1min; to bypass. > 150% Shut down Immediately. Bypass mode 135% overload for long term; >1000% overload for 100 ms					
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately					
Low battery voltage	Alarm and Switch off					
Self-diagnostics	Upon Power On and Software Control					
Backfeed protection	Support					
EPO (optional)	Shut down UPS immediately (turn to bypass optional)					
Battery	Advanced Battery Management					
Noise suppression	Complies with EN62040-3					
Audible & visual alarms	Line Failure, Battery Low, Overload, System Fault					
Status LED & LCD display	Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault					
Reading on the LCD display	Input, Output, Battery, Command, Setting, Maintenance					
Communication interface	RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card(optional), SNMP card(optional), Battery temperature sensor(optional)					
ENVIRONMENTAL						
Operating temperature	0°C ~ 40°C					
Storage temperature	-25°C ~ 55°C					
Humidity range	0 ~ 95% (non condensing)					
Altitude	<1500m, derating required when >1500m					
Noise level	<56dB	<58dB	<60dB	<60dB	<62dB	<62dB
PHYSICAL						
Dimension	UPS cabinet	485 × 850 × 620 (14U)				
W × D × H (mm)	Power module	440 × 620 × 130 (3U)				
Net weight (kg)	UPS cabinet	103			113	
	Power module	32			34	
STANDARDS						
Safety	IEC/EN62040-1, IEC/EN62477-1					
EMC	IEC/EN62040-2 (IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8)					

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