

True on-line double conversion design

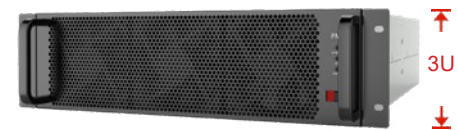
# MR33 Series Modular UPS

(30kW/50kW/100kW Module)



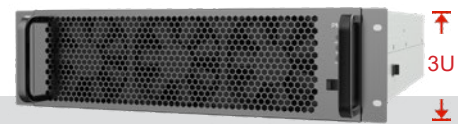
**30K Module**

Dimension (W×D×H): 440×640×86mm



**50K Module**

Dimension (W×D×H): 440×640×130mm



**100K Module**

Dimension (W×D×H): 440×750×130mm



## Green Power

- Efficiency up to 97%
- Intelligent fan speed control
- ECO mode and EPO function



## Excellent Flexibility

- Allow 100% three phase unbalance load
- Intelligent battery management
- Parallel expansion up to 8 units
- Fault Trace Management (Black box)
- Programmable dry contacts



## Advanced Technology

- Online double conversion
- Battery cold start function
- Advanced power module sleep mode
- Dual system control card
- Self-load test function
- Frequency converter function
- Redundant design
- 30k 2U design



ISO 9001  
ISO 14001  
ISO 45001  
Factory Certificate



TIS. 1291 Part 1-2553  
TIS. 1291 Part 2-2553  
TIS. 1291 Part 3-2553

## Technical Specification

MODEL	MR33120	MR33200	MR33300	MR33400	MR33500	MR33600	
Power Module	MR3330-J		MR3350-J				
Capacity (kW)	30		50				
<b>INPUT</b>							
Rated Voltage (Vac)	380/400/415						
Voltage Range (Vac)	L:L 138~485						
Input Frequency (Hz)	40~70						
Bypass Voltage Range (Vac)	-15% (-20%/-30% optional) ~+15%(+10% /+20% optional)						
Power Factor	≥0.99						
THDi	3% (linear load)						
Phase	3 Phase 4 Wire (L1,2,3+N+G)						
Battery Voltage (Vdc)	±192 (±168~±276 settable)	±192 (±180~±276 settable)	±240 (±168~±276 settable)				
Charging Current (A)	N×10 Maximum (N: the number of power modules)						
<b>OUTPUT</b>							
Capacity (kVA)	120	200	300	400	500	600	
Power Factor	1						
Phase	3 Phase 4 Wire (L1,2,3+N+G)						
Waveform	sine wave						
Voltage (Vac)	L-L:380, 400, 415±1%						
Frequency (Hz)	50/60± 0.2% (battery mode)						
Three Phase Difference	≤1 degrees						
THDv	≤1% (linear load, full load), ≤4% (nonlinear load, full load)						
Static Bypass Transfer Time	0						
Max.Efficiency	96%	97%					
Parallel Mode	Advanced no-master-slave parallel technology, N+1 redundancy						
Overload Capacity	106-110% load for 60mins, 111%-130% load for 10mins, 131%-150% load for 1 min, 151%-200% load for 200ms						
<b>GENERAL</b>							
Working Temperature (°C)	-5~40						
Storage Temperature (°C)	-40~70						
Relative Humidity	0%~95%, no condensing						
Battery Type	Lead-acid batteries and lithium iron phosphate batteries						
Communication Interface	RS485, RS232, dry contact (SNMP optional)						
Noise (dB)	< 65	< 70					
Dimension (W×D×H) (mm)	600×860×2000			1200×860×2000			
Weight (kg)	Cabinet	180	224	236	427		
	Bypass Module	17	19	25	25	31	31
	Power Module	27	33				

- Specification is subject to change without prior notice.

## Technical Specification

Model	MR33400	MR33500	MR33600	MR33800	MR331000	MR331200
Power Module	<b>MR33100-J</b>					
Capacity (kW)	100					
<b>Input</b>						
Voltage Range (Vac)	138~485 (324~485 no derating, 138~323 linear derating)					
Frequency Range (Hz)	40~70					
Power Factor	>0.99					
THDi	2% (linear load)					
Phase	3 Phase 4 Wire (L1,2,3+N+G)					
Bypass synchronization tracking range (Hz)	50/60±4					
Bypass input voltage range (Vac)	304~438					
Battery Voltage (VDC)	±180~±300					
<b>Output</b>						
Power Factor	1.0					
Phase	3 Phase 4 Wire (L1,2,3+N+G)					
Voltage (Vac)	380/400/415±1%					
Frequency (Hz)	50/60±0.1%					
THDv	<1% (linear load), <3% (non-linear load)					
Max. Efficiency	97%					
Overload Capacity	106-110% load for 60 minutes, 111%-125% load for 10 minutes, 126%-150% load for 1minute, 151%~200% load change to bypass immediately					
Static Bypass Transfer Time	0					
Cool Start	Yes					
<b>GENERAL</b>						
Working Temperature (°C)	0-40					
Storage Temperature (°C)	-40~70					
Relative Humidity	0~95%, no condensation					
Battery Type	Lead-acid batteries and lithium iron phosphate batteries					
Communication Interface	RS232, RS485, Dry contact, MODBUS, SNMP (optional)					
Alarm	Input abnormal, battery low-voltage, output overload, UPS failure					
Protection	Short-circuit, overload, over-temperature, battery under voltage, input under voltage					
Noise (dB)	<70					
Dimension (W×D×H)(mm)	1200*1000*2000			1400*1000*2000		1800*1000*2000
Weight(kg)	Cabinet	480	506	580	731	
	Bypass Module	32	50	60	120	
	Power Module	55				

- There are other optional accessories to choose;
- Specifications are subject to change without notice;
- Because of module redundancy, it is not recommended to configure only one power module.