



MR Series Modular UPS

25~480kVA

- » All Hot-swap Design
- » Power Factor 1 (kVA=kW)
- » High Efficiency 96%
- » System Parallel
- » Black Box Recorder



Data centers



Telecom systems



Computer rooms



Financial systems



Precision instruments



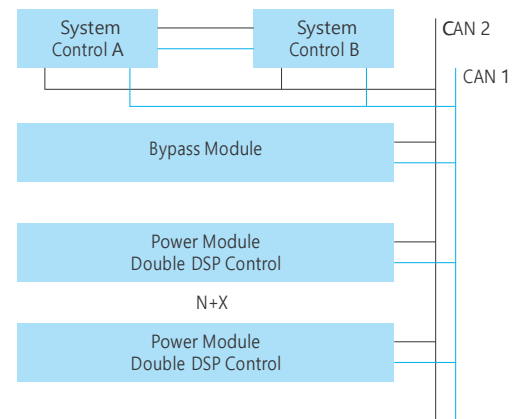
Intelligent equipment

Features and Advantages

MR Series Modular UPS 25-480kVA is ideal for protecting data centers and telecommunication systems, IT networks and critical systems where poor power quality could lead to a loss of operations and service. The products are featured with excellent 96% efficiency and high output performance. The system includes power module, bypass module and control module, all support hot-swap operation, delivering the best combination of reliability, functionality and flexibility.

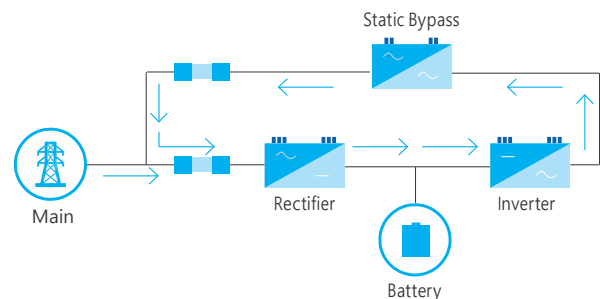
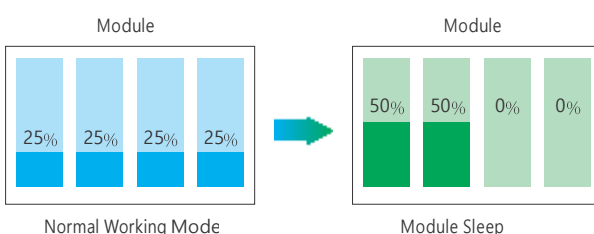
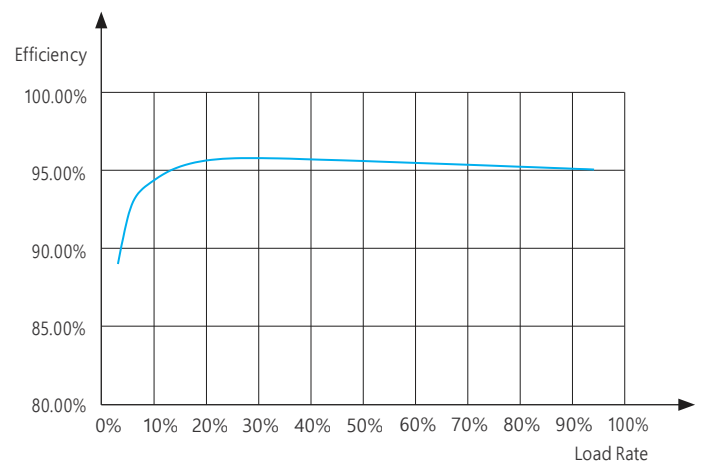
High Reliability:

- Wide input voltage range -60% \diamond +25% to high grid adaptability and minimum battery use
- All hot swappable module, easy for maintenance and expansion, reduce the failure recovery time significantly.
- Dual-redundant bypass and power control, eliminating single failure point
- Intelligent fan control and redundant design for energy saving: 25% load can be driven when 2 fans fail and 50% load when 1 fan fails
- Smart digital parallel up to 4 systems with cables only
- Advanced parallel current sharing control, bring the improvement of Anti-Interference Ability and System Reliability



High Performance:

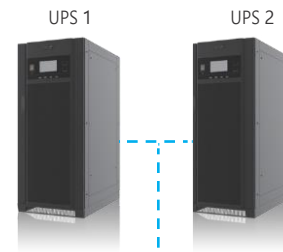
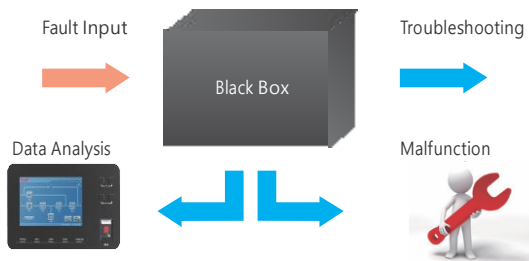
- High AC/AC efficiency \diamond 96% at low load rate: 96% for 40% rated load; 95% for 20% rated load. Reduces energy loss and saves operating costs.
- THDi \leq 3% and input power factor 0.99 reduce the pollution to grid and eliminate the need to oversize the genset to save capital investment
- High output power factor 1 increase the load capacity
- Efficiency >99% at ECO mode, could transfer to online mode in several milliseconds when input abnormality occurs.
- Advanced power module sleep mode, prolong the service life of power module
- Allow 100% three phase unbalance load
- Workable as frequency converter, input and output frequency diversity
- Self-aging test function-solve problem of onsite commissioning and aging for energy saving.
- 0.5m² footprint for single cabinet with maximum 320kVA/320kW, save installation space



Self-aging Test

Smart Management:

- Black box function for convenient failure analysis
- 7-inch colored LCD showing real-time operation status in various languages
- Intelligent battery charging system, prolong the service life of batteries
- Intelligent battery management, 30-40 batteries per string allow customers to get the faulty battery out instead of replacing it
- One battery string shared by all the UPS that are selectable under parallel configuration



Sharing one battery pack

Customized Design

Provide configuration of accessories according to different applications, such as data centers, telecom systems, precision instruments, financial systems, special application condition of communication systems and other industries. We offer one-stop integrated solution to you.

Power Distribution Cabinet:

- Design the power distribution cabinet according to your integrated solution

Input/output Isolation Transformer:

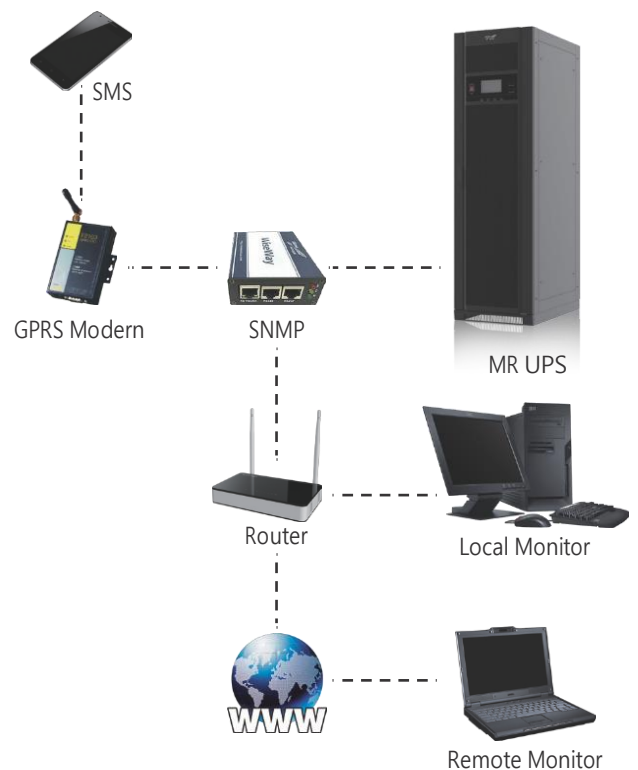
- change the voltage according to the application environment, reduce the grid interference, and ensure the UPS better load feature

Flexible Network Management:

- Optional internal SNMP adapter
- Intelligent management software
- Meet the needs of all applications

Intelligent Battery Monitoring System MMBM :

- Smart diagnosis status
- Real time abnormal alarm
- Record and save event logs
- Real time monitoring parameters



MODEL	MR33125	MR33200	MR33320	MR33480
Input				
Rated Voltage	380/400/415 Vac			
Voltage Range (Vac)	138-485 Vac			
Input wiring	3Ph+N+PE			
Input Frequency (Hz)	40-70 Hz			
Bypass voltage range(Vac)	-15% (-20%/-30% optional) ♦ +15%(+10% /+20% optional)			
Power Factor	♦0.99			
THDi	<3%			
phase	3Φ4W+PE			
Battery	±192 (±180V- ±240V settable)			
Charging current(A)	±10 Maximum (single module)			
Output				
Capacity(KVA/W)	125/125	200/200	320/320	480/480
Power Factor	1			
phase	3Φ4W+PE			
waveform	sine wave			
Voltage (Vac)	L-L:380,400,415 ±1%			
Frequency(Hz)	50/60± 0.2%(battery mode)			
Three phase difference	≤2 degrees			
Waveform distortion	≤ 3%(linear load)			
Static bypass transfer time	0			
System efficiency	96%			
Parallel mode	Advanced no-master-slave parallel technology, N+1 redundancy			
Overload capacity	105-115% load for 60 minutes, 116%-130% load for 10 minutes, 131%-150% load for 1minute, over 150% load transfer to bypass.			
Others				
Operating Temperature	0-40°C			
Storage Temperature	-40-70°C			
Relative Humidity	0%-95%(no condensing)			
Communication function	RS485, dry contact, SNMP adapter			
Noise(dB)	< 65dB	< 70dB		
Power modular	25Kva	40Kva		
Dimension(W×D×H) mm	600×860× 1400	600×860×2000		1200×860×2000
Weight (kg)	380	465	561	1159

• Specification is subject to change without prior notice.



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