



MR33 Series Modular UPS

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Kehua Data Co., Ltd.



MR33 Series UPS

Design Idea

KEHUA®MR series 3-in 3-out UPS, adopts advanced 3-level inverter technology and reliable redundancy design from components to the whole machine. It has the advantages of high efficiency, high power density, easy expansion, capacity expansion as required and small occupied area, and provides reliable, stable and pure green power for loads.



Power Modular 30kW, 50kW

Product Description

- Modular capacity: 30kW, 50kW
 - Cabinet capacity: 120/200/300/400/500/600kVA
 - Rated voltage: 380/400/415Vac (L-L)
 - Rated frequency: 50/60Hz
 - Topology: online double conversion UPS
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Application Fields

- Large data center, communications
- Government, education
- Finance, transportation, energy

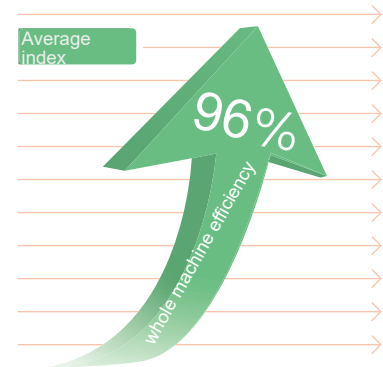


High Reliability

- Wide input voltage range -60%~ +25% with high grid adaptability
- Hot-swappable function ensures uninterrupted operations during maintenance
- Dual system control card prevents single failure point
- Intelligent fan control and redundant design for energy saving: Parallel expansion up to four systems without requiring additional hardware

High Performance

- High efficiency in online mode (>96%) reduces heat dissipation and limits power consumption costs
- THDi≤3% and input power factor 0.99 reduce the pollution to grid and reduce upstream investment costs
- Full rated power (kVA=kW) to maximize power availability
- Efficiency>99% in ECO mode gives significant cost reduction
- Advanced power module sleep mode, prolong the service life of power module
- Allow 100% three phase unbalance load
- Frequency converter function (60Hz to 50Hz or 50Hz to 60Hz)
- Self-load test function without load enables on-site commission
- Small footprint, 300kW only covers 0.5m²



Intelligent Management

- Fault Trace Management (FTM) for convenient failure analysis(80ms waveform record)
- 7-inch HMI enables more parameters setting and status showing
- Intelligent battery charging system, prolong the service life of batteries
- Intelligent battery management, 28-46 pcs batteries per group allow customers to get the faulty battery out instead of replacing it
- Common battery bank sharing in parallel system

More Options

Power Distribution Cabinet

- Design the power distribution cabinet according to your integrated solution
- Backfeed protection

Flexible Network Management

- Optional internal SNMP adapter
- Intelligent management software

Intelligent Battery Monitoring System BMS2000:

- Smart status diagnosis
- Abnormal status real time alarming
- Event logs recording
- Parameters real time monitoring





Technical Specifications

MODEL	MR33120	MR33200	MR33300	MR33400	MR33500	MR33600	
Power Module	MR3330-J	MR3350-J					
Capacity (kW)	30	50					
INPUT							
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	3Φ4W+PE						
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)						
OUTPUT							
Capacity (kVA)	120	200	300	400	500	600	
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	≤1 degrees						
THDv	≤1% (linear load, full load), ≤4% (nonlinear load, full load)						
Static Bypass Transfer Time	0						
Max. System Efficiency	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						
GENERAL							
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				

● Specifications are subject to change without notice;

Kehua Tech.

Add: No. 457, Malong Road, Torch High-Tech Industrial Zone, Xiamen Fujian China
 Tel: +86-592-5160516 Fax: +86-592-5162166 www.kehua.com

