TECH
Values based solutions

VM33 Series Modular UPS

25~480kVA

- » All Hot-swappable Design
- » Power Factor 1 (kVA=kW)
- » High Efficiency 96%
- » System Parallel
- » Fault Trace Management


Data centers


Telecom systems


Computer rooms


Financial systems


Precision instruments

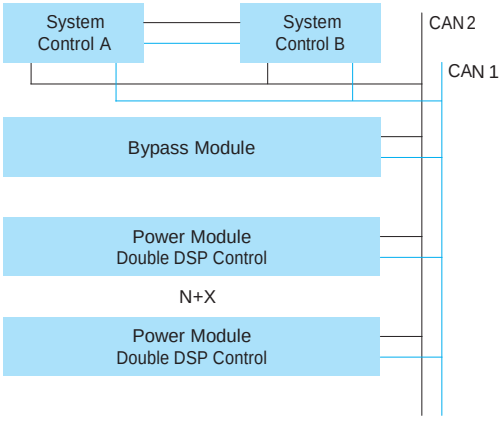

Intelligent equipment

Ecological Power Network

Features and Advantages

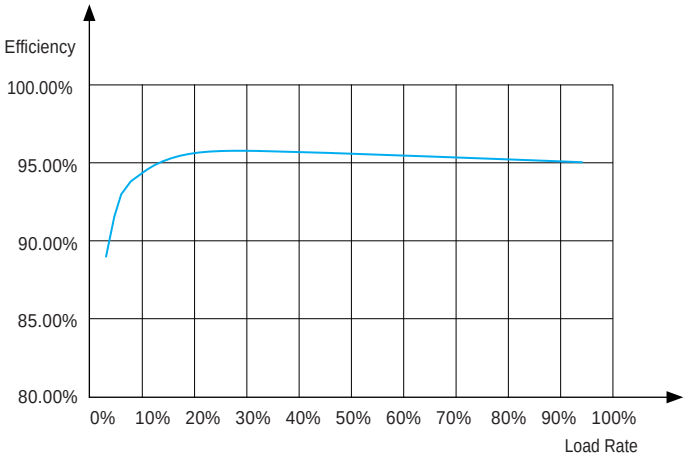
High Reliability:

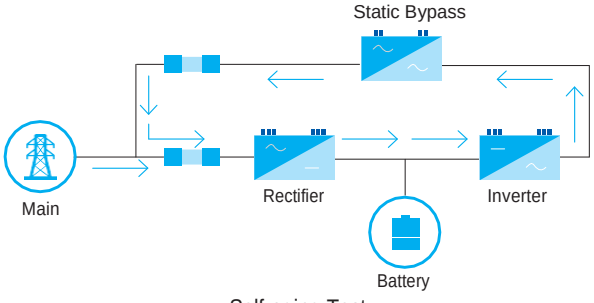
- Wide input voltage range - 60% ~ +25% with high grid adaptability
- Hot-swappable function ensures uninterrupted operations during maintenance
- Dual system control card and dual bypass unit power prevent single failure point
- Intelligent fan control and redundant design for energy saving: 25% load can be driven when 2 fans fail and 50% load when 1 fan fails
- Parallel expansion up to four systems without requiring additional hardware



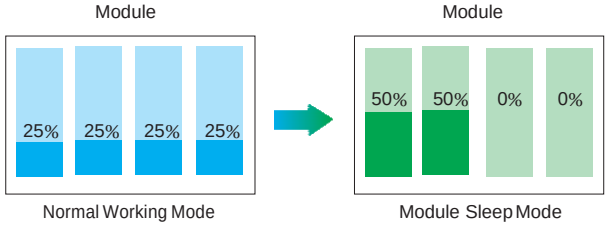
High Performance:

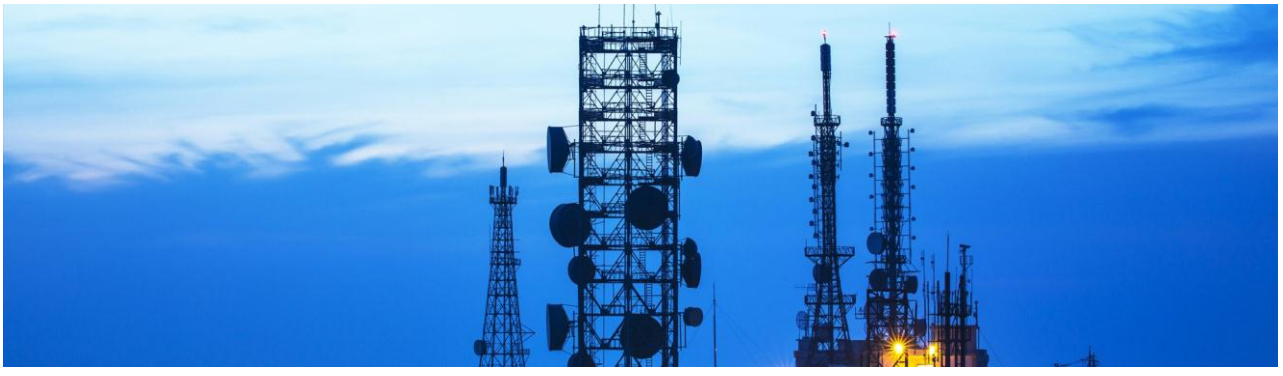
- High efficiency in online mode (>96%) reduces heat dissipation and limits power consumption costs
- THDi≤3% and input power factor 0.99 reduce the pollution to grid and reduce upstream investment costs
- Full rated power (kVA=kW) to maximize power availability
- Efficiency>99% in ECO mode gives significant 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-aging test function without load enables on-site commission
- Small footprint, 320kW only covers 0.5m^2





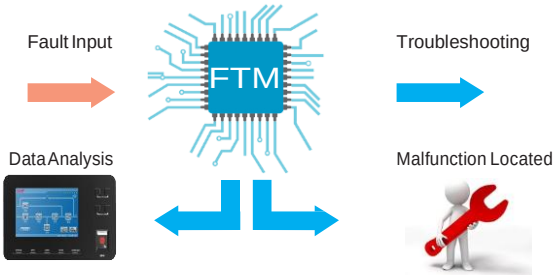
Self-aging Test





Smart 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, 30-40 pcs batteries per string allow customers to get the faulty battery out instead of replacing it
- Common battery bank sharing in parallel system



Common battery bank sharing

More Options

Power Distribution Cabinet:

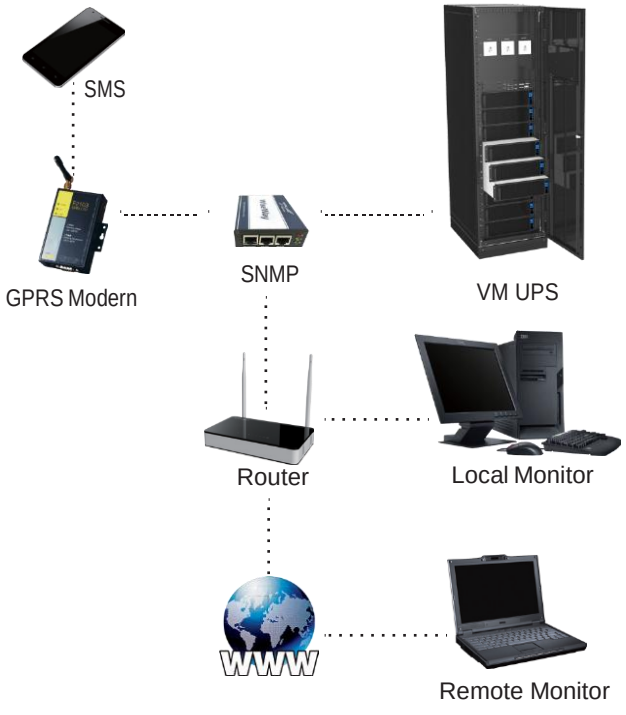
- Design the power distribution cabinet according to your integrated solution

Flexible Network Management:

- Optional internal SNMP adapter
- Intelligent management software

Intelligent Battery Monitoring System MMBM :

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



VM33 Series Modular UPS

25~480kVA

MODEL	VM33125	VM33200	VM33320	VM33480
Power Module	VM3325-J	VM3340-J		
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 Voltage (VDC)	±192VDC (±180V- ±240V settable)			
Charging Current (A)	±10A 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 1 minute, over 150% load transfer to bypass.			
Others				
Approvals	CE (EN62040-2, IEC62040-1)			
Operating Temperature	0~40ºC			
Storage Temperature	-40~70ºC			
Relative Humidity	0~95%, No condensation			
Communication Function	RS485, dry contact, SNMP adapter			
Noise (dB)	< 65dB	<70dB		
Power Module	25kVA	40kVA		
Power Module Dimension (W×D×H) mm	500×700×130			
Power Module Weight (kgs)	32	33		
Dimension (W×D×H) mm	600×860×1400	600×860×2000		1200×860×2000
Weight (kg)	347	412	527	854

• Specification is subject to change without prior notice.

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Version No.: 20180101