



HQ-M Series Modular UPS

125kVA-625kVA

Product Introduction

EVADA's new large-capacity modular UPS adopts the new 125kVA/3U power module, matching AIDC high-power, high-density, high-efficiency and intelligent trends. Redundant critical parts with wear-part early warnings; dual-conversion efficiency 97.5%, ECO99%, green and low-carbon; fully modular, easy to expand and maintain; 10-inch touch screen records 100ms waveforms around faults, integrating power/battery/env/parallel data for fast diagnosis;

Power Range

125 ~ 625 kVA

Application

Telecom operators, Internet, finance, cloud services, government, education, healthcare, enterprises, transportation and energy.

Features

- ▶ **Safe & Reliable**
 - Fully redundant power, control and communication links with no single point of failure;
 - Ultra-wide 138~485Vac input range prevents frequent battery discharge from grid fluctuations, extending battery life;
 - Full load at 50°C without bypass transfer for high reliability;
 - Predictable capacitor/fan life, busbar temperature detection, dust-removal alerts and active cleaning ensure system reliability;



125~625kVA

▶ High Efficiency & Energy Saving

- 98% system efficiency with smart light-load sleep mode cuts OPEX; transfer for better power quality;
- Enhanced ECO mode reaches 99% with active filtering and seamless reducing costs;
- Mains/battery self-aging saves 97%+ energy without renting dummy loads,

▶ Simple & Flexible

- Neutral-line-free battery design saves cable cost and installation labor;
- Power, bypass, control and monitoring modules all support hot-swap, 5-min online maintenance;

▶ Smart Management

- Records 100ms waveforms before/after faults (200ms total) for on-site analysis and fast location;
- Lead-acid & Li-ion BMS access, external switch detection, smoke & temp-humidity monitoring, integrated single/parallel monitoring;





Specification

Model	HQ-M500	HQ-M625
System Capacity	500 kVA	625 kVA
Slot Quantity	Up to 6	
Module Power	125kVA/3U (100kVA/3U optional)	
Main Input		
Wiring Mode	3Ph+N+PE	
Rated Voltage	380/400/415Vac (line voltage)	
Rated Frequency	50/60 Hz	
Frequency Range	138Vac~485Vac*	
Power Factor	40Hz~70Hz	
Power Factor (full load, EnhancedECO mode)	>0.99	
Current Harmonics	THDi<3% (nonlinear full load)	
Bypass		
Rated Voltage	380/400/415Vac (line voltage)	
Voltage Range	Default -20%~+15%; settable, upper: +10%,+15%,+20%,+25%; lower: -10%, -15%,-20%,-30%,-40%	
Battery		
Battery Quantity	40 pcs rated, 30-50 pcs adjustable, battery without neutral line	
Shared Battery Group for Parallel Units	Yes	
Inverter Output		
Rated Voltage	380/400/415Vac (line voltage)	
Power Factor	1.0	
Rated Frequency	50/60Hz	
Voltage Accuracy	380/400/415Vac±1%	
Frequency Tracking Range	±10%	
Voltage Waveform Distortion	THDu≤1% (linear load), THDu≤3% (nonlinear load)	
Inverter Overload Capacity	Load ≤105%: continuous; 105%<load≤110%: bypass after 60min; 110%<load≤125%: bypass after 10min 125%<load≤150%: bypass after 1min; load>150%: immediate bypass	



Specification

Model	HQ-M500	HQ-M625
System		
Efficiency	Up to 97.5%	
Interface	10-inch Touch Screen + LED	
Cable Entry	Top Entry	
Compliance Standards	Safety: IEC62040-1-1; EMC: IEC62040-2; Design & test: IEC62040-3	
Protection Rating	IP20	
Communication	RS232, RS485, dry contacts, dual smart slots (SNMP card, dry contact expansion card optional)	
Options	Battery breaker active tripping. bottom entry kit top exhaust kit, dust filter, surge protection module. parallel cables, LBS cables, ant-seismic kit	
Environment	Operating temp: 0~55°C*; RH: 0~95% (non-condensing)	
Altitude	0~2000m, derating above 2000m per EN/IEC 62040-3	
Dimensions		
Frame W x D x H (mm)	800 x1000 x 2000	
Power Module W x D x H (mm)	580 x 690 x 132 (3U)	
Weight		
Frame (kg)	475 kg	485 kg
Power Module (kg)	55 kg	

* Beyond rated operating conditions, the system derates.
* Specifications subject to change without notice.



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