

HQ-M Series (200-800kVA)

Online Double Conversion

200kVA-800kVA, 3 Phase Input, 3 Phase Output



Intelligent Flexibility

- 30-44 units battery configurable
- Hot-swappable bypass/power module
- Allowing common battery group for parallel
- Fan speed automatically adjusts according to the load
- Multiple communication methods
- Cold start function



Green Performance

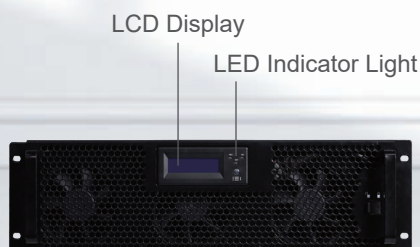
- Efficiency up to 96%
- Output PF = 1
- Maintenance bypass mode
- THDi < 3% and input PF > 0.99
- ECO mode efficiency up to 99%



High Reliability

- Distributed control system for power module
- Isolated air duct for key components
- BMS monitors battery information in real time
- Power module N+X redundancy design
- 50kVA Module with display&indicators

Applications: Finance, telecom, education, transportation power, taxation, medical, enterprise, petrochemical, etc.



LCD Display on Each Power Module

Specification

Model	HQ-M200	HQ-M300	HQ-M400	HQ-M500	HQ-M600	HQ-M800
Capacity	200kVA	300kVA	400kVA	540kVA	600kVA	800kVA
Cabinet Type	5(4+1) Modules	7(6+1) Modules	12(8+4) Modules	12(10+2) Modules	12 Modules	14 Modules
Power Module Capacity	40kVA/50kVA			50kVA	50kVA/60kVA	60kVA
Input						
Rated Voltage	3 Phase+N+PE 380/400/415VAC(Line voltage)					
Rated Frequency	50/60Hz					
Voltage Range (Full Load)	304 ~ 478VAC					
Frequency Range	40 ~ 70Hz					
Power Factor	>0.99					
THDi	< 3%(100% linear load) ; < 5%(100% non-linear load)					
Bypass						
Rated Voltage	380/400/415VAC(Line voltage)					
Voltage Range	Default: -20% ~ +15%; configurable, upper limit: +10%, +15%, +20%, +25%; lower limit: -10%, -15%, -20%, -30%, -40%					
Battery						
Voltage	±240VDC(±180 ~ ±264VDC, 30-44 units configurable, default: 40 units)					
Output						
Rated Voltage	380V/400V/415V(Line voltage)					
Rated Frequency	50/60Hz					
Power Factor	1					
Voltage Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load					
Frequency Accuracy	50/60Hz ± 0.1%					
Frequency Tracking Range	±0.5Hz ~ ±5Hz, configurable, default: ±3Hz					
THDu	≤2%(100% linear load), ≤4%(nonlinear load)					
Three-Phase Accuracy	120° ± 1°					
Crest Factor	3:1					
Overload	≤105%, long run; 105% ~ 110%, 60min; 110 ~ 125%, 10min; 125 ~ 150%, 1min; > 150%, switch to the bypass immediately					
System						
Efficiency	96%					
Display	10" Color touch screen +LED					
Wiring	Support top in and bottom in					Top in
Standard	IEC62040-1-1; IEC62040-2; IEC62040-3					
Optional	Lightning protection module, dustproof net, load break switch cable, seismic kit					
Protection Class	IP20					
Communication	RS232/RS485, optional: SNMP/dry contact					
Operating Temperature	0 ~ 40°C					
Humidity	0 ~ 95%(Non-condensing)					
Altitude	< 1000M no derate, > 1000m derate 1% per 100m					
Noise	< 70dB @ 1m					
Size						
System W x D x H(mm)	600 × 850 × 2000	600 × 1100 × 2000	1000 × 1100 × 2000			1800 × 850 × 2000
Module W x D x H(mm)	440 x 720 x 130(3U)					
Weight						
System(kg)	190	286.5	372.5			610
Module(kg)	32.5(40kVA), 33.5(50kVA), 35(60kVA)					

* Specifications subject to change without notice.

* When battery number is 30/32/34 units, power derate.

