

# HQ-M Series (60-300kVA)

Online Double Conversion

60kVA-300kVA, 3 Phase Input, 3 Phase Output



## Intelligent Flexibility

- Hot-swappable bypass/power module
- 30-44 units battery configurable
- Allowing common battery group for parallel
- 7" Color touchscreen
- Cold start function



## 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



## Green Performance

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

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



**10+2 Redundancy Design**



# Specification

Model	HQ-M60	HQ-M75	HQ-M80	HQ-M100	HQ-M120	HQ-M140	HQ-M150	HQ-M175	HQ-M200	HQ-M300	
Capacity	60kVA	75kVA	80kVA	100kVA	120kVA	140kVA	150kVA	175kVA	200kVA	300kVA	
Cabinet Type	4 Modules				7 Modules				12 Modules		
Power Module Capacity	10/15/20kVA	25kVA	10/15/20kVA	25kVA	10/15/20kVA		25kVA	25kVA	10/15/20kVA	25kVA	
<b>Input</b>											
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)										
<b>Bypass</b>											
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%										
<b>Battery</b>											
Voltage	±192VDC(±180 ~ ±264VDC, 30 - 44 units configurable, default: 32 units)										
<b>Output</b>											
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										
<b>System</b>											
Efficiency	96%										
Display	7" Touch screen + LED										
Wiring	Bottom in				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	<65dB @ 1m										
<b>Size</b>											
System W x D x H(mm)	600 x 850 x 1200				600 x 850x 1600				600 x 1010 x 2000		
Module W x D x H(mm)	440 x 690 x 86(2U)										
<b>Weight</b>											
System(kg)	145				210				239		
Module(kg)	20(10kVA), 22(15kVA), 24(20kVA), 25(25kVA)										

\* Specifications subject to change without notice.

