

HQ-MR Series

Online Double Conversion

40kVA-150kVA, 3 Phase Input, 3 Phase Output



Intelligent Flexibility

- Hot-swappable bypass/power module
- 30-44 units battery configurable
- Rackmount design suitable for 19" cabinet
- Cold start function
- LCD color touchscreen



High Reliability

- Distributed control system for power module
- Isolated air duct for key components
- BMS monitors battery information in real time



Green Performance

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

Applications: Finance, telecom, education, transportation, broadcasting, taxation, healthcare, etc.



Power Module

2U height: 10kVA/15kVA/20kVA



Specification

Model	HQ-MR40	HQ-MR50	HQ-MR80	HQ-MR100	HQ-MR120	HQ-MR150
Capacity	40kVA	50kVA	80kVA	100kVA	120kVA	150kVA
Cabinet Type	2 Modules		4 Modules		6 Modules	
Power Module Capacity	10kVA/15kVA/20kVA	25kVA	10kVA/15kVA/20kVA	25kVA	10kVA/15kVA/20kVA	25kVA
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	±192VDC(±180 ~ ±264VDC, 30 - 44 units configurable, default: 32 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	LCD touch screen					
Wiring	Support top in and bottom in					
Standard	IEC62040-1-1; IEC62040-2; IEC62040-3					
Optional	Paralleling unit, lightning protection module, dustproof net, load break switch cable					
Language	Chinese, English; optional: Russian, Italian, Spanish, German, etc.					
Protection Class	IP20					
Communication	RS232, RS485, optional: SNMP card, dry contact					
Operating Temperature	0 ~ 40°C					
Humidity	0 ~ 95%(Non-condensing)					
Altitude	< 1000M no derate, > 1000m derate 1% per 100m					
Noise	<60dB @ 1m					
Size						
System W x D x H(mm)	482.6 x 800 x 353(8U)		482.6 x 800 x 531(12U)		482.6 x 900 x 796(18U)	
Module W x D x H(mm)	440 x 690 x 86(2U)					
Weight						
System(kg)	60		65		80	
Module(kg)	20(10kVA), 22(15kVA), 24(20kVA), 25(25kVA)					

* Specifications subject to change without notice.



HQ-MRE Series

Online Double Conversion

60kVA-180kVA, 3 Phase Input, 3 Phase Output



Intelligent Flexibility

- Hot-swappable bypass/power module
- 30-44 units battery configurable
- Rackmount design suitable for 19" cabinet
- Cold start function
- LCD color touchscreen



High Reliability

- Distributed control system for power module
- Isolated air duct for key components
- BMS monitors battery information in real time



Green Performance

- Efficiency up to 96%
- Output PF = 0.8
- Maintenance bypass mode
- THDi < 3% and input PF > 0.99

Applications: Finance, telecom, education, transportation, broadcasting, taxation, healthcare, etc.



Power Module

2U height: 10kVA/15kVA/20kVA



Specification

Model	HQ-MR60E	HQ-MR120E	HQ-MR180E
Capacity	60kVA	120kVA	180kVA
Cabinet Type	2 Modules	4 Modules	6 Modules
Power Module Capacity	30kVA	30kVA	30kVA
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	±192VDC(±180 ~ ±264VDC, 30 - 44 units configurable, default: 32 units)		
Output			
Rated Voltage	380V/400V/415V(Line voltage)		
Rated Frequency	50/60Hz		
Power Factor	0.8		
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	LCD touch screen		
Wiring	Support top in and bottom in		
Standard	IEC62040-1-1; IEC62040-2; IEC62040-3		
Optional	Paralleling unit, lightning protection module, dustproof net, load break switch cable		
Language	Chinese, English; optional: Russian, Italian, Spanish, German, etc.		
Protection Class	IP20		
Communication	RS232, RS485, optional: SNMP card, dry contact		
Operating Temperature	0 ~ 40°C		
Humidity	0 ~ 95%(Non-condensing)		
Altitude	< 1000M no derate, > 1000m derate 1% per 100m		
Noise	<60dB @ 1m		
Size			
System W x D x H(mm)	482.6×800×353(8U)	482.6×800×531(12U)	482.6×900×796(18U)
Module W x D x H(mm)	440 x 690 x 86(2U)		
Weight			
System(kg)	60	65	80
Module(kg)	26.5		

* Specifications subject to change without notice.



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	
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	±192VDC(±180 ~ ±264VDC, 30 - 44 units configurable, default: 32 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	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										
Size											
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)										
Weight											
System(kg)	145				210				239		
Module(kg)	20(10kVA), 22(15kVA), 24(20kVA), 25(25kVA)										

* Specifications subject to change without notice.



HQ-ME Series

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 = 0.8
- 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-M60E	HQ-M90E	HQ-M120E	HQ-M150E	HQ-M180E	HQ-M210E	HQ-M240E	HQ-M270E	HQ-M300E
Capacity	60kVA	90kVA	120kVA	150kVA	180kVA	210kVA	240kVA	270kVA	300kVA
Cabinet Type	4(2+2) Modules	4(3+1) Modules	4 Modules	7(5+2) Modules	7(6+1) Modules	7 Modules	12(8+4) Modules	12(9+3) Modules	12(10+2) Modules
Power Module Capacity	30kVA								
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	±192VDC(±180 ~ ±264VDC, 30 - 44 units configurable, default: 32 units)								
Output									
Rated Voltage	380V/400V/415V(Line voltage)								
Rated Frequency	50/60Hz								
Power Factor	0.8								
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	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	<60dB @ 1m								
Size									
System W x D x H(mm)	600 x 850 x 1200			600 x 850 x 1600			600 x 1010 x 2000		
Module W x D x H(mm)	440 x 690 x 86(2U)								
Weight									
System(kg)	145			210			239		
Module(kg)	26.5								

* Specifications subject to change without notice.



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

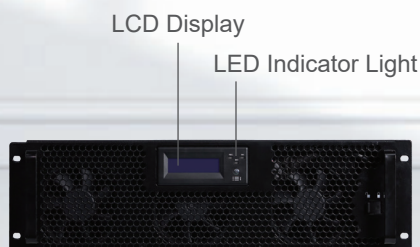
- Efficiency up to 96%
- Output PF = 1
- Maintenance bypass mode
- THDi < 3% and input PF > 0.99
- ECO mode efficiency up to 99%



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.



Power Module



2U

Model	CM10	CM15	CM20	CM25	CM30
Capacity	10kVA	15kVA	20kVA	25kVA	30kVA
Output					
Power Factor	1.0				0.8
System					
Display	LED				
Size					
WxDxH(mm)	440×690×86(2U)				

* Specifications subject to change without notice.



3U

Model	CM40	CM50	CM60
Capacity	40kVA	50kVA	60kVA
Output			
Power Factor	1.0		
System			
Display	LED+LCD		LED
Size			
WxDxH(mm)	440×720×130(3U)		

* Specifications subject to change without notice.



