



## HQ-M Series

Modular UPS 20kVA-300kVA

- Isolated air duct design
- 20/25KVA 2U module
- Output PF=1



### ■ Power Range

20kVA-300kVA

### ■ Way Of Working

Online double conversion

### ■ Application

Finance, telecommunication, education, hospitals, transportation & other network devices, data centers.

### ◆ 10+2 redundancy design



### ■ Performance Characteristics

#### Intelligent Flexibility

- Adjustable battery number: 30-44 units
- Allowing common battery group for parallel
- Cold start function

#### High Reliability

- Intelligent fan speed control
- Isolated air duct with key components
- Full switches configuration is available
- Lightning protection function (optional)
- Intelligent fan speed control

#### Green Performance

- Output PF=1
- ECO mode for energy saving
- Maximum for 12 power modules (2000mm height)
- Self-load test function reduce 95% power loss



## Performance

Model	HQ-M60	HQ-M120	HQ-M200	HQ-M300
Rated Capacity	60kVA	120kVA	200kVA	300kVA
Power Module Capacity	20kVA/25KVA			
<b>Input</b>				
Wiring Method	3 Phase+N+PE			
Rated Voltage	380/400/415VAC(line-line)			
Rated Frequency	50/60Hz			
Voltage Range	304VAC ~ 478VAC ( line-line ) full load ; 304VAC ~ 228VAC (line-line) Load derating linearly from 100% to 80%			
Frequency Range	40Hz~70Hz			
Power Factor	>0.99			
THDi	< 3% ( linear full load ) ; < 5% ( non-linear full load )			
<b>Bypass</b>				
Rated Voltage	380/400/415VAC(line voltage)			
Voltage Range	Factory setting -20% ~ +15% ; settable, upper limit:+10%,+15%,+20%,+25% ; lower limit:-10%,-15%,-20%,-30%,-40%			
Frequency Range	Rated frequency 50/60Hz ; frequency range can be set $\pm 1$ Hz , $\pm 3$ Hz , $\pm 5$ Hz			
Overload Capacity	110% for long run ; >150% for 200ms			
<b>Battery</b>				
Battery Voltage	$\pm 192$ VDC ( 360 ~ 528VDC ; 30 ~ 44 units settable , defaulted by 32 units )			
Charging Capacity	15%* total capacity			
Voltage Accuracy	$\pm 1$ %			
<b>Output</b>				
Rated Voltage	380V/400V/415V(line-line)			
Rated Frequency	50/60Hz			
Power Factor	1			
Voltage Accuracy	$\leq \pm 1.0$ %@ balanced load ; $\leq \pm 5.0$ %@ unbalanced load			
Frequency Accuracy	50/60Hz $\pm 0.01$ %			
Frequency Tracking Range	Settable , $\pm 0.5$ Hz~ $\pm 5$ Hz ; factory setting $\pm 3$ Hz			
THDu	$\leq 2$ %(100% linear load), $\leq 4$ %( nonlinear load)			
Three-phase Phase Accuracy	$120^\circ \pm 1^\circ$			
Crest Factor	3:1			
Overload	< 105% , long run ; < 110% , 60mins ; 110 ~ 125% , 10mins ; > 125 ~ 150% , 1mins ; > 150% , 200ms			
<b>System</b>				
System Efficiency	$\geq 96$ %@ double conversion mode , $\geq 98$ %@ECO mode			
Display	Touch screen + LED			
Wiring	Support top in and bottom in			Top in
Standard	IEC62040-1-1; IEC62040-2; IEC62040-3			
Protection Class	IP20			
Feeder Protection	Standard: isolating switch, optional: fuse			
Communication	RS232/ RS485/ Modbus/SNMP ( optional ) / dry contact (optional)			
Optional	Dust-proof net, lightning protection module, LBS cable, earthquake-proof components, temperature and humidity sensor			
Working Condition	Temperature : 0 ~ 40°C ; humidity : 0~95%( no condensation)			
Noise	<60dB@1 meter			
Altitude	<1000 meters, no derating, > 1000 meters, derating 1% if every 100 meters increased			
Cabinet Type	4 Modules	7 Modules	12 Modules	
<b>Size</b>				
System W x D x H (mm)	600 x 890 x 1200	600 x 960x 1600	600 x 1010 x 2000	
Module W x D x H (mm)	440 x 690 x 86 ( 2U )			
<b>Weight</b>				
System(kg )	140	185	250	270
Module(kg )	25			

\* Specifications are subject to change without prior notice.