

# HQ11&HQ31 Series

## Online Double Conversion

1kVA-30kVA, 1-10kVA: 1 Phase Input, 1 Phase Output/10-30kVA: 3 Phase Input, 1 Phase Output



### Safe and Efficient

- Wide input voltage range
- User-friendly control design without strict control sequence
- Cold start function
- Input/output isolation design



### Comprehensive Protection

- Unique heat dissipation technology with independent air duct
- Corrosion-resistant, insulated circuitry
- Modular cabinet with optional IP enhancements
- Resilient against high temperature, humidity, dust, corrosive agents, and vibrations



### Intelligent Management

- N+X parallel technology
- Three-stage equalizing charging
- DSP control and power redundancy design
- Intuitive bilingual graphical interface

Applications: Medical equipment, data centers, precision instrument, banks, highway toll systems, automated production lines&control systems



**Design With Wheels**



# Specification

Model	HQ30L	HQ50L	HQ60L	HQ1110L	HQ3110L	HQ3115L	HQ3120L	HQ3130L
Capacity	3kVA	5kVA	6kVA	10kVA	10kVA	15kVA	20kVA	30kVA
<b>Input</b>								
Voltage Range	1 Phase (L+N+PE) 220 ± 15VAC				3 Phase+N+PE; 380 ± 15%			
Frequency Range	50 ± 5%Hz							
<b>Output</b>								
Voltage Accuracy	1 Phase 220VAC							
Frequency Range	50Hz ± 0.5% (Battery)							
Waveform	Pure sine wave							
THDu	<3% (100% Linear load)							
Parallel Current Imbalance	≤5%							
Power Factor	0.8							
Overload	105% ~ 125%, 10 min; 125% ~ 150%, 1 min; > 150%, switch to the bypass immediately							
Switching Time	0ms							
Efficiency	90%							
<b>Battery</b>								
Voltage	96/192VDC	192VDC						
Charging Current	5A				5A/10A			
<b>System</b>								
Display	LCD+LED							
Communication	RS232, optional: RS485, dry contact, SNMP							
<b>Protection</b>								
Alarm	Power outage, low battery voltage, output overload, UPS abnormality, etc.							
Overload	Support							
Overheat	Support							
Short Circuit	Support							
Overvoltage	Support							
Undervoltage	Support							
<b>Environment</b>								
Operating Temperature	0~40 C							
Humidity	<95% (Non-condensing)							
Nosie	<55dB @ 1 m							
<b>Physical</b>								
W×D×H(mm)	235×550×520			310×660×750			400×750×900	
Weight(kg)	35	48	52	101	128	142	210	230

\* Specifications are subject to change without prior notice.



# HQ33 Series

Online Double Conversion

10kVA-600kVA, 3 Phase Input, 3 Phase Output



## Safe and Reliable

- N+1 redundant cooling system
- Built-in manual maintenance bypass switch
- Output isolation transformer
- Allowing for 3 phase 100% unbalanced load
- Isolated air duct design
- Employing phase-locked loop technology alongside electronic static bypass switch



## Intelligent Management

- Automated self-testing
- Surge/overload/short circuit/overheat protection
- 7" Color touch screen display multiple languages
- Support RS232/RS485, SNMP optional
- Parameters and status display in real-time on the PC



## Comprehensive Protection

- Overvoltage, undervoltage, low battery voltage warning
- High-speed DSP and programmable components
- Eddy current fan
- Battery units configurable
- 10-80kVA support cold start function

Applications: Medical equipment, computer equipment, data center, precision instrument, bank, highway toll systems, production lines&controlling system



Standard: 4 Breakers



# Specification

Model	HQ3310	HQ3320	HQ3330	HQ3340	HQ3360	HQ3380	HQ33100	HQ33120
Capacity	10kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA
<b>Input</b>								
Rated Voltage	380/400/415VAC, 3 Phase+N+PE							
Voltage Range	±25%							
Rated Frequency	50/60Hz (Auto-sensing)							
Frequency Range	40 ~ 70Hz							
<b>Bypass</b>								
Rated Voltage	380/400/415VAC							
Rated Frequency Range	±10% (±5% configurable)							
Rated Frequency	50/60Hz							
Inverter/Bypass Switch	0ms							
<b>Output</b>								
Power Factor	0.9							
Rated Voltage	380/400/415VAC, 3 Phase+N+PE							
Phase Voltage	220 (200 ~ 244V configurable)							
Crest Factor	3:1							
THDu	<2% @ 100% Linear load; 5% @ 100% non-linear load							
Voltage Accuracy	±1%							
Transient Response	±5% < 10ms							
Overload	125%, 10 min; 150%, 1 min							
Efficiency	≥93% @ 100% load							
<b>Battery</b>								
Voltage	360-408V (30-34 units configurable) no neutral wire							
<b>System</b>								
Communication	RS232, RS485, optional: dry contact, SNMP							
Operating Temperature	-10 ~ 40 °C							
Display	7" Touch screen							
Humidity	0 ~ 95% (Non-condensing)							
Altitude	<1000m no derate, >1000m, derating 1% 100m							
Noise	≤65dB @ 1m							
<b>Physical</b>								
WxDxH(mm)	500×600×1250			500×800×1600			700×800×1800	
Weight(kg)	187	230	260	365	425	485	620	655

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# Specification

Model	HQ33160	HQ33200	HQ33250	HQ33300	HQ33400	HQ33500	HQ33600
Capacity	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA	600kVA
<b>Input</b>							
Rated Voltage	380/400/415VAC, 3 Phase+N+PE						
Voltage Range	±25%						
Rated Frequency	50/60Hz (Auto-sensing)						
Frequency Range	40Hz ~ 70Hz						
<b>Bypass</b>							
Rated Voltage	380/400/415VAC						
Rated Frequency Range	±10% (±5% configurable)						
Rated Frequency	50/60Hz						
Inverter/Bypass Switch	0ms						
<b>Output</b>							
Power Factor	0.9						
Rated Voltage	380/400/415VAC, 3 Phase+N+PE						
Phase Voltage	220 (200 ~ 244V configurable)						
Crest Factor	3:1						
THDu	<2% @ 100% Linear load; 5% @ 100% non-linear load						
Voltage Accuracy	±1%						
Transient Response	±5% < 10ms						
Overload	125%, 10 min; 150%, 1 min						
Efficiency	≥93% @ 100% load						
<b>Battery</b>							
Voltage	360-408V (30-34 units configurable) no neutral wire					456-504V(38-42 units configurable) no neutral wire	
<b>System</b>							
Communication	RS232, RS485, optional: dry contact, SNMP					RS232, RS485, dry contact, optional: SNMP	
Operating Temperature	-10 ~ 40 °C						
Display	7" Touch screen					LCD+LED	
Humidity	0 ~ 95% (Non-condensing)						
Altitude	<1000m no derate, >1000m, derating 1% 100m						
Noise	≤65dB @ 1m						
<b>Physical</b>							
WxDxH(mm)	700×800×1800	1640×850×1950			2265×855×1900	2615×855×1900	2865×955×1900
Weight(kg)	720	1450	1600	1750	2105	2850	3130

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