



U-EQ Series

True On-Line Double Conversion Isolated Frequency Converter

Power range

U-EQ11 : 1kVA-10kVA

U-EQ31 : 10kVA-30kVA

Way of working

U-EQ11 : Single phase in, Single phase out

U-EQ31 : 3 phase in, 1 phase out

Application field

Medical equipment, Data center, Precision instrument,
Banks, ETC, Industrial Production Lines& Controlling
System

Performance characteristics

Safe and Reliable

- MCU control to ensure higher reliability
- Wide Input Voltage and Frequency Range.
- Maintenance bypass switch
- Cold start function

Intelligent Management

- Advanced Battery Management system
- RS232/RS484 communication port, dry contact & SNMP optional
- Settable charge current according to battery capacity



Comprehensive protection function

- Independent air duct to split air flow
- Output Isolation transformer
- N+X parallel function
- Support dual input
- Fitting for high-temperature, dusty, salinity& Corrosive gas environment

* SPECIFICATIONS : *True On-line Frequency Converter with Isolated Transformer*

Model : U-EQ	U-EQ1101L	U-EQ1102L	U-EQ1103L	U-EQ1105L	U-EQ1106L	U-EQ1110L	U-EQ3110L	U-EQ3115L	U-EQ3120L	U-EQ3130L
Rated Capacity (kVA/kW)	1/0.8	2/1.6	3/2.4	5/4	6/4.8	10/8	10/8	15/12	20/16	30/24
Input										
Voltage Range	220 / 230 / 240V ± 25% (1P2W + PE)						380 / 400V ± 25 % (3P4W + PE)			
Frequency Range	50/60Hz ± 10%									
Frequency	≤1Hz/s									
Output										
Voltage Range	Single Phase 220V ± 1% (1P2W + PE)									
Frequency Range	50/60Hz±5% (Mains power) ; 50/60Hz±0.5% (Battery)									
Dvnamic Response	±1% (100% Load change)									
Voltage Waveform Distortion	≤3% (100%Linear load)									
Crest factor	3: 1									
Parallel Load Current	≤3%									
Power Factor	0.8									
Overload	110%~125% Last 10 Mins; < 150% Last 1 Min									
Switching Time	0ms									
Efficiency	> 95 % (AC To AC at Full Load and Normal DC Voltage)									
Battery										
Type	Sealed maintenance-free lead-acid battery									
DC Voltage	96Vdc/192Vdc				192Vdc					
Charging Current	Optional									
Display										
LED indicator	Mains lights, inverter lights, battery under voltage lights, bypass lights,									
LCD Display	Input and Output Voltage and Frequency, Battery Voltage, Load Percentage, UPS status, Operating Temperature, etc.									
Other Functions										
Alarm Function	Mains power failure, low battery, output overload, UPS abnormality, etc.									
Protection Function	Overload: switch to bypass power supply, and automatically switch to inverter after reducing the load; overheat: switch to bypass power supply at >85°C; short circuit: automatically limit current and cut off the output									
Protection Function	Fault: switch to bypass power supply; overvoltage protection: UPS output overvoltage switch to bypass; under voltage protection: battery under voltage shutdown UPS output									
Environment										
Operating	0 ~ 40℃									
Humidity	0~ 95%									
Noise	< 55dB									
Communication										
Communicati on Ports	Standard: RS232、RS485; Optional: Dry contact、SNMP Card.									
Physical Parameters										
WxDxH(mm)	260 x 550 x 520					350x 660 x 750			400x750x900	
Weight	28	32	35	48	52	101	128	142	210	230

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