

EA890i

30 kVA ~ 60 kVA

PF 0.8

IGBT Rectifier



This series is an online dual-conversion UPS, a 2-level topology design with bidirectional rectifier and inverter, which supports regenerative load, with no need for an extra Dynamic Braking Resistor (DBR), especially for industrial loads like motors, lifts, and laser cutting machines.

It also adopts an IGBT rectifier design with a high input power factor (≥ 0.99) and low THDi ($< 5\%$), which is a grid-friendly product. With its built-in output isolation transformer, this design delivers exceptional electrical safety and high system availability, guaranteeing a stable and reliable power foundation.

Features

- Standard anti-backflow function prevents shock damage to the UPS, no additional accessories are required
- Avoid the need for oversized UPS and batteries to support energy backflow, dramatically reduce total cost of ownership
- Maximize battery protection and extend service life
- Contribute to a greener planet by minimizing energy losses and recycling energy

Applications

- Industrial application (e.g. crane, CNC machines, flexo printers, etc)
- Braking lift
- Tower crane
- Electro medical equipment (e.g. computed tomography, etc)
- Radar



Specifications

MODEL	EA8930i	EA8940i	EA8960i
Capacity	30kVA	40kVA	60kVA
INPUT			
Input wiring	Main circuit input: three-phase four-wire(3Φ+PE); Bypass input: three-phase five-wire(3Φ+N+PE)		
Rated voltage	380/400/415Vac		
Voltage range	285~467Vac		
Rated frequency	50/60Hz		
Frequency range	40~70Hz		
Power factor	0.99		
THDi	<5%		
OUTPUT			
Output wiring	Three-phase five-wire(3Φ+N+PE)		
Rated voltage	380/400/415Vac		
Output voltage regulation	$\pm 1.5\%$		
Output frequency regulation	Main mode: synchronous with bypass input; battery mode: 50/60Hz $\pm 0.1\%$		
Waveform	Sinusoidal		
Power factor	0.8		
THDv	$\leq 2\%$ (linear load), $\leq 5\%$ (non-linear load)		
Crest factor	3:1		
Overload	105% \leq load \leq 110% for 60mins, 110% \leq load \leq 125% for 10mins, 125% \leq load \leq 150% for 1min		
BATTERIES			
DC voltage	Default 600 Vdc		
Number of batteries	12Vx50PCS(50~52pcs settable)		
Charging current	Charging rate(settable) x battery capacity(settable) x number of battery groups(settable)		
SYSTEM			
Parallel	Up to 6 units		
Protections	Short-circuit, overload, overtemperature, overvoltage, undervoltage, battery low voltage and fan failure		
Communications	Standard: USB, RS232, RS485, dry contacts; Optional: SNMP card, battery temperature compensation		
Display	LCD touch screen+LED		
OTHERS			
Operating temperature	-5~40° C		
Storage temperature	-25° C~55° C(without battery)		
Relative humidity	0%~95%(non-condensing)		
Altitude	$\leq 1000m$, above 1000m, derating 1% for each additional 100m		
IP rating	IP20		
Dimensions(W × D × H)(mm)	400 × 800 × 1010	450 × 860 × 1200	
Packaged dimensions (W × D × H)(mm)	480 × 865 × 1260	530 × 940 × 1460	
Net weight(kg)	230	260	330
Gross weight(kg)	260	290	360

Note: Specifications are subject to change without notice.

Pictures are for reference only. Please refer to the actual product.