

# EA890i

10 kVA ~ 120 kVA  
PF 0.9  
IGBT Rectifier



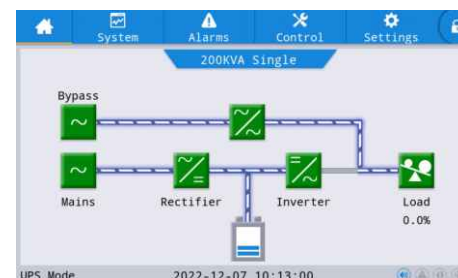
ELCS



EA890i series is an on-line dual-conversion industrial UPS based on EA890 platform, which is designed based on our years of experience in the application of power electronic products in highways, tunneling, manufacturing and electric power etc. This series of products adopts IGBT rectifier + built-in isolation transformer scheme, which has superior electrical safety performance and high system availability, and can provide stable and reliable power supply guarantee for the industries of finance, transportation, telecommunication, and manufacturing.

## Features

- OnLine Double Conversion Topology, accept Dual-Mains Input
- DSP Technology Guarantees High Reliability
- Input and output are completely isolated for great security
- True Inbuilt Galvanic Isolation Transformer Design
- Strong mixed load capacity and high overload capacity
- Redundant Fan Design and Independent Ventilation Enhances Durable Operation Under Harsh Environment
- Intelligent self-diagnosing function, superior failure protection, large capability of history records storage
- High efficiency even at light loads
- Adjustable Battery Numbers
- Intelligent Battery Management to Prolong Battery Life Cycle
- N+X Redundancy Parallel Operation with up to 6 Units (Option)
- Variety of Communication Options Available
- EPO & ECO Mode Operation
- Generator compatible
- High MTBF (> 200,000 h)
- Low MTTR (< 0.5 h)



7" Screen

## Specifications

MODEL	EA8910i	EA8915i	EA8920i	EA8930i	EA8940i	EA8960i	EA8980i	EA89100i	EA89120i	
Capacity	10 kVA / 9 kW	15 kVA / 13.5 kW	20 kVA / 18 kW	30 kVA / 27 kW	40 kVA / 36 kW	60 kVA / 54 kW	80 kVA / 72 kW	100 kVA / 90 kW	120 kVA / 108 kW	
<b>INPUT</b>										
Input wiring	Main circuit input: three-phase four-wire (3Φ + P E); Bypass input: three-phase five-wire (3Φ + N + P E)									
Rated voltage	380 / 400 / 415 Vac									
Voltage range	360 ~ 460Vac (no derating), 260 ~ 360Vac (linear derating between 70% ~ 100% load)									
Rated frequency	50 / 60 Hz									
Frequency range	40 ~ 70Hz									
Power factor	≥ 0.98								≥ 0.99	
Total harmonic distortion (THDi)	≤ 7 %			≤ 5 %			≤ 3 %			
DC cold start component	Built into the UPS host									
DC anti-reverse connection component	Built into the UPS host									
<b>OUTPUT</b>										
Output wiring	Three-phase five-wire (3Φ + N + P E)									
Rated voltage	380 / 400 / 415 Vac									
Output voltage regulation	± 1.5%									
Output frequency regulation	Mains mode: synchronous with bypass input; battery mode: 50 / 60 Hz ± 0.1%									
Waveform	Sinusoidal									
Power factor	0.9									
Voltage distortion (THDv)	≤ 2 % (linear load), ≤ 5% (non-linear load)									
Crest factor	3:1									
Overload	105% < load ≤ 110% for 60 min,		110% < load ≤ 125% for 10 min,		125% < load ≤ 150% for 1 min					
<b>BATTERIES</b>										
DC voltage	Default 360Vdc				Default 600 Vdc					
Number of batteries	12 V x 30 pcs (29 ~ 40 pcs settable)				12 V x 50 pcs (48 ~ 52 pcs settable)					
Charging current	Charging rate (settable) x battery capacity (settable) x number of battery groups (settable)									
<b>SYSTEM</b>										
Efficiency	86.5%	89%	87.7%	88.8%	88.8%	89.5%	Line mode ≥ 92%, ECO mode ≥ 97%			
Parallel	Up to 6 units									
Protections	Short-circuit, overload, overtemperature, overvoltage, undervoltage, battery low voltage and fan failure									
Communications	Standard configuration: USB, RS232, RS485, CAN, dry contacts Optional configuration: SNMP card, WIFI card, GPRS card, GSM-SM modem alarm, temperature compensation, SMS alarms									
Display	7 inches LCD touch screen + LED									
<b>OTHERS</b>										
Operating temperature	0 ~ 40°C									
Storage temperature	- 25°C ~ 55°C (without battery)									
Relative humidity	0% ~ 95% (non-condensing)									
Altitude	≤ 1 000 m. Above 1000 m, derating 1% for each additional 100 m									
IP rating	IP30 (IP31 possible with additional optional accessory)									
Noise level at 1 m	≤ 5 5dB		≤ 6 0dB		≤ 7 0dB		< 65 dB			
Dimensions (W×D×H) (mm)	600 x 600 x 1600				800 x 600 x 1800		800 x 800 x 1800			
Packaged dimensions (W×D×H) (mm)	700 x 700 x 1700				900 x 700 x 1900		900 x 900 x 2050			
Net weight (kg)	215	225	275	310	340	430	580	630	680	
Gross weight (kg)	265	275	325	360	390	480	630	680	730	