

# EA890i

80 kVA ~ 500 kVA

PF 0.9

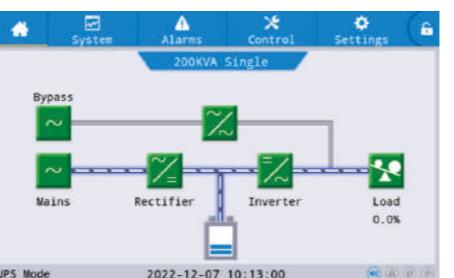
IGBT Rectifier



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, DZn0 winding transformer compatible with unbalanced load
- 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" Touch Screen

## Specifications

MODEL	EA8980i	EA89100i	EA89120i	EA89160i	EA89200i	EA89250i	EA89300i	EA89400i	EA89500i						
Capacity	80kVA/ 72kW	100kVA/ 90kW	120kVA/ 108kW	160kVA/ 144kW	200kVA/ 180kW	250kVA/ 225kW	300kVA/ 270kW	400kVA/ 360kW	500kVA/ 450kW						
<b>INPUT</b>															
Input wiring	Three-phase five-wire(3Φ+N+PE)														
Rated voltage	380/400/415Vac														
Voltage range	304~346V(derating 10%), 346~456V(full load)														
Rated frequency	50/60Hz														
Frequency range	(50/60)±5Hz														
Power factor	≥0.99														
Total harmonic distortion(THDi)	≤3%														
Delayed start of rectifier	10s(1~300 settable)														
Bypass voltage range	±20%(settable)														
<b>OUTPUT</b>															
Output wiring	Three-phase five-wire(3Φ+N+PE)														
Rated voltage	380/400/415Vac														
Output voltage regulation	± 1%														
Output frequency regulation	50/60Hz ± 0.1% in battery mode														
Waveform	Sinusoidal														
Power factor	0.9														
Voltage distortion(THDv)	≤2%(linear load), ≤5%(non-linear load)														
Crest factor	3:1														
Overload	105%~110% for 60 min, 110%~125% for 10 min, 125%~150% for 1min, 150%~200% for 200ms														
<b>BATTERIES</b>															
DC voltage	Lead acid battery: 600Vdc    Lithium iron phosphate battery: 614.4Vdc														
Number of batteries	Lead acid battery: 12Vx50pcs (48~50pcs settable) Lead acid battery: 2Vx300pcs (288~300pcs settable) Lithium iron phosphate battery: 3.2Vx192pcs (192/208pcs settable)														
Charging current	Charging rate(settable) × battery capacity(settable) × number of battery groups(settable)														
<b>SYSTEM</b>															
Efficiency	Line mode ≥92%, ECO mode ≥96%			Line mode ≥93%, ECO mode ≥97%			Line mode ≥94%, ECO mode ≥98%								
Max. number of parallel connections	6														
Protections	Short-circuit, overload, overtemperature, overvoltage, undervoltage, battery low voltage and fan failure														
Communications	Standard configuration: RS232, RS485, RJ45, USB, dry contacts Optional configuration: SNMP card, temperature compensation, SMS alarms														
Display	7 inches LCD touch screen														
<b>OTHERS</b>															
Operating temperature	0 ~ 40°C														
Storage temperature	- 25°C~55°C(without battery)														
Relative humidity	0%~95%(non-condensing)														
Altitude	≤1000m. Above 1000m, derating 1% for each additional 100m														
IP rating	IP20														
Noise level at 1m	< 65 dB														
Dimensions(W × D × H)(mm)	800 × 800 × 1800			800 × 860 × 1700			1210 × 860 × 1950								
Packaged dimensions (W × D × H)(mm)	900 × 900 × 2050			900 × 1000 × 1950			1300 × 1000 × 2200 (× 2)								
Net weight(kg)	580	630	680	790	1135	1275	1355	2090	2300						
Gross weight(kg)	630	680	730	840	1200	1340	1420	2200	2410						