

# EA890

10 kVA ~ 120 kVA (3 : 3)  
PF 0.9



## Features

- Online double-conversion with full DSP control
- IGBT inverter with output isolation transformer
- 100% unbalance load capability
- Output power factor 0.9
- Generator compatible
- Support battery cold start and auto-restart when mains power is restored
- ECO mode operation for energy saving
- Superior protection
- 7 inches LCD touch screen friendly human & machine interface
- Front access makes maintenance and replacement simplified (60 ~ 120 kVA)
- Intelligent self-diagnosing function, all kinds of failure protection, large capability of history records storage
- High MTBF (> 200,000 h)
- Low MTTR (< 0.5 h)
- Standard emergency power off (EPO)
- Standard RS232, RS485, dry contacts communication port
- Optional SNMP communication port
- Optional N+X redundancy parallel up to 6 units
- Optional input filter to improve input power factor

## Specifications

MODEL	EA8910	EA8915	EA8920	EA8930	EA8940	EA8960	EA8980	EA89100	EA89120	
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	Three-phase five-wire (3Φ + N + PE)									
Rated voltage	380 / 400 / 415 Vac									
Voltage range	285~ 475V									
Rated frequency	50 / 60 Hz									
Frequency range	(50 / 60) ± 5 Hz									
Power factor	≥ 0.95 (with filter)									
Delayed start of rectifier	10 s (1 ~ 300 settable)									
Bypass voltage range	± 20% (settable)									
<b>OUTPUT</b>										
Output wiring	Three-phase five-wire (3Φ + N + PE)									
Rated voltage	380 / 400 / 415 Vac									
Output voltage regulation	± 1%									
Output frequency regulation	50 / 60 Hz ± 0.1% in battery mode									
Waveform	Sinusoidal									
Power factor	0.9									
Voltage distortion (THDv)	≤ 1% (linear load), ≤ 5% (non-linear load)									
Crest factor	3:1									
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min									
<b>BATTERIES</b>										
DC Voltage	Lead acid battery: 360Vdc Lithium iron phosphate battery: 384 Vdc									
Number of batteries	Lead acid battery: 12 V x 30 pcs ( support 28~32 pcs) Lead acid battery: 2 V x 180 pcs ( support 168~192 pcs) Lithium iron phosphate battery: 3.2 V x 120 pcs ( support 112/120 pcs)									
Charging current	Charging rate (settable) × battery capacity (settable) × number of battery groups (settable)									
<b>SYSTEM</b>										
Efficiency	In line mode: Max. 93%; ECO mode: ≥ 98%									
Max. number of parallel connections	6									
Protections	Short-circuit, overload, overvoltage, undervoltage, low battery, overtemperature, fan failure									
Communications	RS232 / RS485 / dry contacts (standard), SNMP (optional)									
EMI	EN62040-2									
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (surge)									
<b>OTHERS</b>										
Operating temperature	0 ~ 40°C									
Storage temperature	-25°C ~ 55°C (without batteries)									
Relative humidity	0 ~ 95% (non-condensing)									
Altitude	≤ 1000 m (derating 1% for each additional 100 m)									
IP rating	IP 20									
Noise level at 1 m	65dB									
Dimensions (W × D × H) (mm)	400 × 800 × 1100						600 × 700 × 1500	700 × 800 × 1700		
Packaged dimensions (W × D × H) (mm)	490 × 920 × 1300						700 × 800 × 1650	800 × 900 × 1850		
Net weight (kg)	158	165	175	210	260	460	590	630	690	
Gross weight (kg)	200	207	217	252	302	480	620	660	720	

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.
- This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.
- For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.