

EA890

80 kVA ~ 500 kVA (3:3)
PF 0.9



EA890 series UPS 80 ~ 500 kVA provide maximum protection and power quality for mission critical loads, including data centers, industrial processes, telecommunications, security and electro-medical systems. It is an on-line double conversion UPS with IGBT based 3-level PWM rectifier technology, featured with high input power factor (> 0.99), low THDi, high efficiency and built-in output isolation transformer.

Features

- Online double-conversion with DSP control
- Latest IGBT rectifier technology, high input power factor (> 0.99) and low THDi (≤ 3%)
- High efficiency even at light loads
- Strong mixed load capacity and high overload capacity
- Compact and small footprint
- Unique ventilation design
- Batteries are connected directly to the bus, improving the impact resistance of UPS output
- Output isolation transformer using DZn0 winding makes strong capability with unbalanced loads
- Input and output are completely isolated for great security
- Simulated modular design makes maintenance easy and quick
- High MTBF (> 200,000 h)
- Low MTTR (< 0.5 h)
- Front accessible maintenance and installation against wall allowed
- Bottom and sides cable entry compatible
- Generator compatible
- Intelligent self-diagnosing function, superior failure protection, large capability of history records storage
- Optional N+X redundancy parallel up to 6 units

Specifications

MODEL	EA8980	EA89100	EA89120	EA89160	EA89200	EA89250	EA89300	EA89400	EA89500
Capacity	80 kVA / 72 kW	100 kVA / 90 kW	120 kVA / 108 kW	160 kVA / 144 kW	200 kVA / 180 kW	250 kVA / 225 kW	300 kVA / 270 kW	400 kVA / 360 kW	500 kVA / 450 kW
INPUT									
Input wiring	Three-phase five-wire (3Φ + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Voltage range	304 ~ 346 V (derating 10%),346 ~ 456 V (full load)								
Rated frequency	50 / 60 Hz								
Frequency range	(50 / 60) ± 5 Hz								
Power factor	≥ 0.99								
Total harmonic distortion (THDi)	≤ 3%								
Delayed start of rectifier	10 s (1 ~ 300 settable)								
Bypass voltage range	± 20% (settable)								
OUTPUT									
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)	≤ 2% (linear load), ≤ 5% (non-linear load)								
Crest factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
BATTERIES									
DC voltage	Lead acid battery: 600 Vdc Lithium iron phosphate battery: 614.4 Vdc								
Number of batteries	Lead acid battery: 12 V x 50 pcs (support 48~52 pcs) Lead acid battery: 2 V x 300 pcs (support 288~312 pcs) Lithium iron phosphate battery: 3.2 V x 192 pcs (support 192/208 pcs)								
Charging current	Charging rate (settable) × battery capacity (settable) × number of battery groups (settable)								
SYSTEM									
Efficiency	Line mode ≥ 92%, 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, dry contacts Optional configuration: SNMP card, temperature compensation, SMS alarms								
Display	5.7 inches LCD touch screen								
OTHERS									
Operating temperature	0 ~ 40℃								
Storage temperature	– 25℃ ~ 55℃ (without battery)								
Relative humidity	0% ~ 95% (non-condensing)								
Altitude	≤ 1000 m. Above 1000 m, derating 1% for each additional 100 m								
IP rating	IP 20								
Noise level at 1 m	< 65 dB							< 70 dB	
Dimensions (W×D×H) (mm)	800 × 800 × 1800			800 × 860 × 1700	1210 × 860 × 1950			2380 × 860 × 1950	
Packaged dimensions (W×D×H) (mm)	900 × 900 × 2050			900 × 1000 × 1950	1300 × 1000 × 2200			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

- 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.

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