

EA990

200KVA ~ 600KVA (3:3)
PF 0.9



EA990 series 200KVA ~ 600KVA is three-phase input and three-phase output uninterruptible power supply system with high frequency on-line double-conversion technology controlled by DSP (Digital Signal Processor) microprocessor. It adopts a highly intelligent modular design to achieve utmost compact layout and improve reliability of the system. It meets the protection demands of critical loads in data centres or other important applications with high electrical performance and hardware/software protections.

Features

- DSP digital control technology
- Pure sine wave double conversion, with strong load capacity
- Modular design, high reliability and easy maintenance
- Dual input power distribution for higher usability
- Input power factor > 0.99, THDi < 3%, environment friendly and high-efficiency and energy-saving
- Keep high efficiency operation at low load rate: 96% at 40% rated load
- High power density, 500KVA system only 1.02 m² footprint
- High Efficiency operating in on-line mode up to 96%, in ECO mode up to 99%
- Wide input voltage range, 50Hz/60Hz frequency auto-sense, adapt to all kind of grid
- Support two modes of frequency conversion: 50Hz input/60Hz output and 60Hz/input 50Hz output
- Output power factor 0.9, load capability improved 12.5% more than traditional products
- Advanced parallel expansion technology, support 4 units in parallel
- Share battery pack in parallel operation, saving user's battery cost
- Flexible charger parameter and battery configuration setting, battery number 30 ~ 46pcs selectable
- Intelligent battery management (Intelligent charge/discharge management and float charging voltage temperature compensation), extending battery lifespan
- Support battery cold start and utility self boot
- Self-aging function, easy debugging and test on site
- Complete hardware and software protection function, robust self-diagnostic function, and abundant event log for check
- 7 inches LCD touch screen, friendly human-machine interface
- Monitoring unit with built-in SNMP, supports RS485 and dry contacts

Specifications

MODEL	EA99200	EA99300	EA99400	EA99500	EA99600
Rated capacity	200 KVA 180 KW	300 KVA 270 KW	400 KVA 360 KW	500 KVA 450 KW	600 KVA 540 KW
INPUT					
Input wiring	3Ph+N+PE				
Rated voltage	380 / 400 / 415 Vac				
Voltage range	138 ~ 485 Vac (305 ~ 485 Vac without power downgrading; 138 ~ 305 Vac with linear downgrading 40%)				
Input frequency	40 ~ 70 Hz				
Power factor	≥ 0.99				
Current distortion	< 3%				
BATTERIES					
Battery voltage	± 240 Vdc (± 180, ± 192, ± 204, ± 216, ± 228, ± 252, ± 264, ± 276 selectable)				
Number of battery	40 pcs 12 V batteries (supports 30 / 32 / 34 / 36 / 38 / 42 / 44 / 46 pcs)				
OUTPUT					
Output wiring	3Ph+N+PE				
Rated voltage	380 / 400 / 415 Vac				
Voltage regulation accuracy	± 1%				
Frequency	Synchronized with utility on mains power mode: 50Hz / 60Hz ± 0.25% in battery mode:				
Power factor	0.9				
Voltage distortion	≤ 1% with liner load / ≤ 3% with non-linear load				
Crest factor	3:1				
Inverter overload capacity	105% < load ≤ 110%: transfer to bypass in 60 min 110% < load ≤ 125%: transfer to bypass in 10 min 125% < load ≤ 150%: transfer to bypass in 1 min Load > 150%: transfer to bypass in 200 ms				
Bypass overload capacity	Load ≤ 135% for long term; < 1000% load for 100 ms				
SYSTEM					
Efficiency	96 %				
Max. number of parallel	4 units				
Transfer time	0 ms				
Protection	Lack-phase protection, phase-error protection, short circuit protection, overload protection, over-temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection ect.				
Communications	RS485, dry contacts, SNMP				
Display	7 inches LCD touch screen				
OTHERS					
Operating temperature	0 ~ 40°C				
Storage temperature	- 40°C ~ 70°C				
Humidity	0 ~ 95% (non-condensing)				
Altitude	≤ 1000 m. Above 1000 m, derating 1% for each additional 100 m				
Protection level	IP 20				
Noise level at 1 m	< 65 dB		< 68 dB		
Dimensions (W×D×H) (mm)	600×850×2000		1200×850×2000		1400×850×2000
Weight (kg)	360	460	720	790	974

●All specifications subject to change without notice.