

COMET PLUS

150 kVA ~ 800 kVA (3:3)
PF 0.9



EA990 series 150 kVA ~ 800 kVA 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 centers 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, 500 kVA system only 1.02m² footprint
- High Efficiency operating in on-line mode up to 96%, in ECO mode up to 99%
- Wide input voltage range, 50 Hz / 60 Hz frequency auto-sense, adapt to all kind of grid
- Support two modes of frequency conversion: 50 Hz input / 60 Hz output and 60 Hz input / 50 Hz 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 ~ 46 pcs 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	EA99150	EA99200	EA99300	EA99400	EA99500	EA99600	EA99800
Rated capacity	150 kVA 135 kW	200 kVA 180 kW	300 kVA 270 kW	400 kVA 360 kW	500 kVA 450 kW	600 kVA 540 kW	800 kVA 720 kW
INPUT							
Input wiring	3 Ph + 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	3 Ph + N + PE						
Rated voltage	380 / 400 / 415 Vac						
Voltage regulation accuracy	± 1%						
Frequency	Synchronized with utility on mains power mode, 50 Hz / 60 Hz ± 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% for 60 min, 110% < load ≤ 125% for 10 min, 125% < load ≤ 150% for 1 min, Load > 150% for 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℃						
Storage temperature	- 40℃ ~ 70℃						
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	2400×850×2000	
Weight (kg)	333	365	439	680	795	1011	1540

●All specifications subject to change without notice.