

EA990 Super

200 kVA ~ 1200 kVA

(3:3)

PF 0.9 / 1.0



EA990 Super series 200 ~ 1200 kVA UPSs are double conversion online UPS with latest IGBT module and interleaving parallel technology. The series adopts modular design and scales using 300 kVA / 270 kW power cabinets. Power cabinets can be added after initial installation to allow for load growth or increased redundancy. It is available in 200 ~ 1200 kVA stand alone and in parallel from 200 kVA to 4800 kVA, delivering the best combination of high performance, availability and superior protection function to ensure power continuity for any type of application including data centers, large-scale industrial processes, telecommunications, security and electro-medical and other critical systems.

Features

- Multi-DSP design that ensures fast and reliable control and switching
- Online double conversion architecture with strong load capacity
- High efficiency up to 96.8%, reducing power loss
- Input power factor up to 0.99, THDi < 3%
- Wide input voltage range and 50 / 60 Hz auto-sensing frequency designed for harsh electrical environments
- Soft-start technology improves generator matching up to 1:1.1
- Two modes of frequency conversion: 50 Hz input / 60 Hz output and 60 Hz input / 50 Hz output
- Input, output, bypass and maintenance switches are supplied as standard, power distribution system are integrated inside the UPS cabinet
- Easy Installation and reducing total cost of ownership (TCO)
- Intelligent hibernation mode upgrading enables UPS to operate efficiently at low load rate
- Advanced multi-parallel technology, supporting 4 units connected in parallel for 4800 kVA of maximum capacity
- Share battery pack in parallel operation, saving user's battery cost
- Flexible charging parameters setting and battery configurations
- Intelligent load test mode, combination of power supply modes of mains power and battery power, independent full power charger, flexible energy storage solution, supporting lithium-ion batteries
- Intelligent battery management (intelligent charge and discharge management and floating charge voltage temperature compensation) extending the battery life
- Support cold start with battery and auto restart with mains power
- Self-aging function to simplify debugging and test on site
- N+1 redundancy design for fans, equipped with fault early warning function
- Effective hardware and software protection, robust self-diagnosis function, abundant event log
- 7 inches LCD colorful touch screen, friendly human & machine interface
- Advanced multi-platform communication: CAN, RS232, USB, RS485, LBS, RJ45, dry contacts, SNMP card, Wi-Fi card and GPRS card

Specifications

MODEL	EA99200 -SP	EA99250 -SP	EA99300 -SP	EA99400 -SP	EA99500 -SP	EA99600 -SP	EA99750 -SP	EA99900 -SP	EA991000 -SP	EA991200 -SP
Capacity	200 kVA/ 200 kW	250 kVA/ 250 kW	300 kVA/ 270 kW	400 kVA/ 400 kW	500 kVA/ 500 kW	600 kVA/ 540 kW	750 kVA/ 750 kW	900 kVA/ 810 kW	1000 kVA/ 1000 kW	1200 kVA/ 1080 kW
INPUT										
Input wiring	Three-phase five-wire (3Φ+N+PE)									
Rated voltage	380 / 400 / 415 Vac									
Voltage range	260 ~ 460 Vac									
Frequency range	40 ~ 70 Hz									
Power factor	≥ 0.99									
Bypass voltage range	278 ~ 478 Vac									
Total harmonic distortion (THDi)	< 3%									
OUTPUT										
Output wiring	Three-phase five-wire (3Φ+N+PE)									
Rated voltage	380 / 400 / 415 Vac									
Voltage regulation	± 1%									
Frequency	Synchronized with utility in mains mode; 50 / 60 Hz ± 0.05% in battery mode									
Waveform	Sinusoidal									
Total harmonic 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 1 min									
BATTERIES										
Battery voltage	480 Vdc (456 / 468 / 492 / 504 Vdc selectable)									
Number of battery	12 V 40 pcs (38 / 39 / 41 / 42 pcs selectable)									
SYSTEM										
Efficiency	96.8%									
Transfer time	0 ms									
Protections	Phase loss, phase error, short-circuit, overload, overtemperature, battery low voltage, output undervoltage, fan failure etc.									
Max. number of parallel connections	4									
Communications	Standard configurations: CAN, RS232, RS485, USB, LBS, RJ45, dual intelligent card slots, programmable dry contacts; Optional configurations: Parallel card, SNMP card, GPRS card, Wi-Fi card									
Display	7 inches LCD touch screen									
OTHERS										
Operating temperature	0℃ ~ 40℃ at full load, 40℃ ~ 50℃ derating 3% for each additional 1℃									
Storage temperature	-25℃~60℃									
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	≤ 70 dB									
Dimensions (W × D × H) (mm)	1350 × 900 × 1950			1950 × 900 × 1950			3700 × 900 × 1950		4500 × 900 × 1950	
Packaged dimensions (W × D × H) (mm)	1444 × 990 × 2155			2040 × 990 × 2155			1790 × 990 × 2155 + 2090 × 990 × 2155		1840 × 990 × 2155 + 2090 × 990 × 2155 + 834 × 990 × 2155	
Net weight (kg)	880			1500			2550		3150	
Gross weight (kg)	940			1570			2700		3350	

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.