

EA990

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



Features

- High frequency online double-conversion with DSP control
- Modular design, high reliability, easily maintenance
- Double input distribution, higher reliability of system
- Input power factor correction (PFC)
- ECO mode operation for energy saving
- Wide input voltage range, 50 Hz / 60 Hz auto-sense frequency
- Support two modes of frequency conversion: 50 Hz input / 60 Hz output and 60 Hz input / 50 Hz output
- Input power factor > 0.99, input THDi ≤ 3%, output THDV ≤ 3%
- Output power factor 0.9
- High efficiency: load > 10%, efficiency ≥ 90%; load > 50%, efficiency ≥ 93%
- Digitized charger: flexible charger parameter and battery configuration setting, monitoring battery disconnected on line
- Share battery pack in parallel operation or separate battery pack for different UPS
- Flexible charger parameter and battery configuration setting, selectable battery number: 32 pcs / 34 pcs / 36 pcs / 38 pcs / 40 pcs
- Advanced intelligent battery management technique, prolong the working life of battery effectively
- Support battery cold start and mains supply self-starting
- 5.7 inches LCD touch screen, friendly human & machine interface
- Perfect protective function in hard and software, robust self-diagnosing, abundant event log for future check
- Perfect password control technology, including the first power-on password control, user password control and Maintenance password control.
- Reminders of battery and DC BUS capacitors out of warranty
- Standard emergency power off (EPO)
- Standard RS232 / USB / RS485 / dry contacts communication port
- Optional SNMP communication port
- Optional N+1 redundancy parallel up to 6 units
- Optional built-in isolation transformer
- Optional battery temperature compensation



Rear Panel

1. SNMP (optional)
2. RS232
3. RS485
4. USB
5. TEMP COMPENSATION
6. BATTERY PROTECTION
7. DRY CONTACT
8. PARALLEL PORT (optional)

Specifications

MODEL	EA9910	EA9920	EA9930	EA9940	EA9960	EA9980	EA99100	EA99120
Capacity	10KVA 9KW	20KVA 18KW	30KVA 27KW	40KVA 36KW	60KVA 54KW	80KVA 72KW	100KVA 90KW	120KVA 108KW
INPUT								
Rated voltage	380 V / 400 V / 415 Vac							
Voltage range	204 ~ 520 Vac (load ≤ 50%); 242 ~ 520 Vac (50% < load ≤ 70%); 304 ~ 520 Vac (70% < load ≤ 100%)							
Rated frequency	50 / 60 Hz (auto-sense)							
Frequency range	40 ~ 70 Hz							
Power factor	≥ 0.99							
Total harmonic distortion (THDI)	≤ 3%							
Bypass voltage range	Rated output voltage -40% ~ rated output voltage +20% (settable via LCD)							
OUTPUT								
Voltage	380 V / 400 V / 415 Vac							
Voltage regulation	± 1%							
Frequency	Synchronized with utility in mains mode; Frequency conversion mode: 50 Hz input and 60 Hz output or 60 Hz input and 50 Hz output 50 / 60 Hz in battery mode							
Waveform	Sinusoidal							
Crest factor	3:1							
Total harmonic distortion (THDV)	≤ 1% (linear load); ≤ 3% (non-linear load)							
Transfer time	0 ms							
Inverter overload capability	102% ~ 125%: transfer to bypass in 10 mins; 125% ~ 150%: transfer to bypass in 1 min; > 150%: transfer to bypass in 0.5 s							
Bypass overload capability	≤ 150%: long time running > 150%: shut down in 10 s							
BATTERIES								
DC voltage	± 192 V (options: ± 204 V / ± 216 V / ± 228 V / ± 240 V)							
Inbuilt battery of standard model	32 × 12 V / 9 Ah	64 × 12 V / 9 Ah	No					
Charging current	1 ~ 12 A (settable via LCD)		1 ~ 24 A (settable via LCD)			1 ~ 24 A (settable via LCD) 1 ~ 48 A (optional)		
SYSTEM								
Efficiency	≥ 93%, ECO mode 98.5%							
Display panel	5.7 Inches LCD touch screen							
Alarm	Battery mode, low battery, fans fault etc							
Max. parallel numbers	6							
EMI	EN62040-2							
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (surge)							
COMMUNICAITONS								
RS232 / RS485 / USB / dry contacts (standard)	Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10							
SNMP (optional)	Power management from SNMP manager and web browser							
OTHERS								
Humidity	0 ~ 95% RH @ 0 ~ 40°C (non-condensing)							
Noise level	≤ 60 dB							
Dimensions (W × D × H) (mm)	600 × 800 × 1360				600 × 800 × 1680			
Packaged dimensions (W × D × H) (mm)	720 × 920 × 1500				720 × 920 × 1820			
Net / Gross weight (kg)	180 / 200	185 / 205	190 / 210	225 / 245	230 / 250	336 / 376	374 / 414	
Without inbuilt battery								

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