

EA990

10KVA ~ 60KVA (3:3)
PF 1.0



Features

- High frequency online double-conversion with DSP control
- Modular design, high reliability, easy maintenance
- Input power factor correction (PFC)
- ECO mode operation for energy saving
- Input voltage range 60 ~ 150Vac; Auto sensing 50Hz / 60Hz frequency
- Support two modes of frequency conversion: 50Hz input / 60Hz output and 60Hz input / 50Hz output
- Input power factor > 0.99, input THDi ≤ 3%, output THDV ≤ 3%
- Output power factor 1.0
- High efficiency: load > 15%, efficiency ≥ 90%; load > 50%, efficiency ≥ 93%
- Share battery pack in parallel operation or separate battery pack for different UPS
- Flexible charging parameter and battery configuration setting, selectable battery number: 16 pcs / 18 pcs / 20pcs
- 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
- Complete hardware and software protection function, robust self-diagnostic function, and abundant event log for check
- Perfect password control technology, including: the first power-on password control, user password control and Maintenance password control.
- Reminders of battery out of warranty
- Standard emergency power off (EPO)
- Standard RS232 / USB / RS485 / dry contacts communication port
- Optional SNMP communication port
- Optional N+X redundancy parallel up to 6 units
- Optional built-in isolation transformer
- Optional battery temperature compensation

Specifications

MODEL	EA9910	EA9920	EA9930	EA9940	EA9960
Capacity	10KVA / 10KW	20KVA / 20KW	30KVA / 30KW	40KVA / 40KW	60KVA / 60KW
INPUT					
Rated voltage	190 / 200 / 208 / 220Vac				
Voltage range	104 ~ 130Vac (L-L), load ≤ 50%; 130 ~ 161Vac (L-L), 50% < load ≤ 70% ; 161 ~ 260Vac (L-L), 70% < load ≤ 100%				
Rated frequency	50 / 60Hz (auto-sense)				
Frequency range	40 ~ 70Hz				
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	190 / 200 / 208 / 220Vac				
Voltage regulation	± 1%				
Frequency	Synchronized with utility in mains mode; 50 / 60Hz ± 0.1% in battery mode				
Power factor	1.0				
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%: power off in 10 s				
BATTERIES					
DC voltage	± 96V (option: ± 108V / ± 120V)				
Inbuilt battery of standard model	Max. 36 x 12V / 38Ah				
Charging current	1 ~ 12A (settable via LCD)			1 ~ 24A (settable via LCD)	
SYSTEM					
Efficiency	≥ 93%; ECO mode 98.5%				
Display	5.7 Inches LCD touch screen				
Alarm	Battery mode, battery voltage low, 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)				
COMMUNICATIONS					
RS232 / RS485 / USB / dry contacts	Supports Windows 98 / 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10				
SNMP (option)	Power management from SNMP manager and web browser				
OTHERS					
Humidity	0 ~ 95% RH @ 0 ~ 40°C(non-condensing)				
Noise level	≤ 60dB				
Dimensions (mm) W x D x H	600 x 900 x 1360			600 x 900 x 1550	
Packaged dimensions (mm) W x D x H	720 x 1020 x 1500			720 x 1020 x 1700	
Net / Gross weight (kg) without Inbuilt battery	196 / 205	200 / 210	203 / 212	260 / 280	265 / 285

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