EA990 G5

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



Features

- High frequency on-line double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction(APFC), input power factor up to 0.99
- System efficiency is improved to 96%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range
- 50/60Hz auto-sensing frequency
- 50/60Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Flexible battery configuration setting, selectable battery numbers: 32~40 pcs
- Digitally controlled charger
- Ability to switch on the UPS by battery in the absence of mains power(Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Compact internal layout, small footprint
- 5 inches LCD colorful touch screen, friendly human&machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Standard RS232, USB, RS485, EPO, Dry contacts, parallel port
- Optional SNMP card, WI-FI card, GPRS card, SMS alarms
- Optional 10~40kVA 3:1/1:1 version
- Optional 15~20kVA ±120Vdc version

Specifications

MODEL	EA9910	EA9915	EA9920	EA9930	EA9940	EA9960
Power rating	10kVA/10kW	15kVA/15kW	20kVA/20kW	30kVA/30kW	40kVA/40kW	60kVA/60kW
INPUT						
Rated voltage	220/230/240Vac(L-N) 380/400/415Vac(3Φ+N+PE)					
Voltage range	176~275Vac, fullload; 132V~176Vac, load decrease linearly according to the min phase voltage(L-N) 304~478Vac, fullload; 228V~304Vac, load decrease linearly according to the min phase voltage(3Φ+N+PE)					
Rated frequency	50/60Hz					
Frequency range	40~70 Hz					
Power factor	>0.99					
Bypass voltage range	Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%					
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz					
Input current THDi	<1%(linear load), <3%(nonlinear load)					
Bypass overload	125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms					
OUTPUT						
Rated voltage	220/230/240Vac(L-N) 380/400/415Vac(3Φ + N + PE)					
Voltage precision	±1%(linear load)					
Frequency	Synchronized with utility in mains mode, 50/60Hz±0.1% in battery mode					
Waveform	Sinusoidal					
Power factor	1					
Total harmonic distortion(THDv)	<1%(full linear load); <3%(full non-linear load according to IEC/EN62040-3)					
Crest factor	3:1					
Overload	<110%, 60min; 110%~125%,10min; 125%~150%,1min; >150%, 200ms					
BATTERIES						
Regular Long time model DC voltage	±120~264Vdc (20~44pcs)	±192~264Vdc (32~44pcs)		±180~264Vdc (30~44pcs)	±192~264Vdc (32~44pcs)	
Standard model battery voltage	(10+10)x9Ah	(20+20)x7Ah	(20+20)x9Ah	(15+15)x9Ah x2strings	(20+20)x9Ah x2strings	/
Charging current	10A max.				15A max.	20A max.
Charger voltage precision	1%					
SYSTEM						
Display	5 inch touch screen					
Efficiency	95% max.				96% max.	
Transfer time	0ms					
Max. Number of parallel connections	4					
Interface	Standard: RS232, RS485, USB, Battery cold start Option: Programmable dry contact, SNMP, Parallel kit					
ENVIRONMENT						
Operating temperature	0°C~40°C					
Storage temperature	-40°C~70°C					
Relative humidity	0~95%(non-condensing)					
Noise level at 1m	58dB max.				62dB max.	
Altitude	<1000m, load derated 1% per 100m from 1000~2000m					
OTHERS						
Dimensions(W×D×H)(mm)	250x720x560(S) 250x720x560(H)	250x800x700(S) 250x720x560(H)		250x840x930(S) 250x840x650(H)	250x720x560(H) 350x800x1280(S)	250x790x560(H)
Packaged dimensions(W×D×H)(mm)	350x800x722(S) 350x800x718(H)	350x900x862(S) 350x800x718(H)		350x950x1102(S) 350x980x810(H)	450x900x1400(S) 350x800x718(H)	350x850x818(H)
Net weight(kg)	82(S) 31(H)	131(S) 33(H)	145(S) 33(H)	215(S) 42(H)	42(H) 300(S)	48(H)
Gross weight(kg)	93(S) 40(H)	142(S) 42(H)	156(S) 42(H)	227(S) 52(H)	52(H) 310(S)	58(H)

- S means standard model, H means long time model.
- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.
- Derate capacity to 90% when the number of batteries is set to 32 pcs for 40kVA/60kVA model.
- Derate capacity to 60% when set regular version to 3:1 mode