

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 / 60 Hz auto-sensing frequency
- 50 / 60 Hz 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 logs for future check
- Standard RS232, USB, RS485, EPO, Dry contacts, Parallel port
- Optional SNMP card, Wi-Fi card, GPRS card, SMS alarms

Specifications

| MODEL | EA9910 | EA9915 | EA9920 | EA9930 | EA9940 | EA9960 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|------------------------------|------------|
| Power rating | 10kVA/10kW | 15kVA/15kW | 20kVA/20kW | 30kVA/30kW | 40kVA/40kW | 60kVA/60kW |
| INPUT | | | | | | |
| Phase | 3:3 / 3:1 / 1:1 | | | | | |
| Rated voltage | 220/230/240Vac (L-N) 380/400/415Vac (3Φ + N + PE) | | | | | |
| Voltage range | 132~275Vac (L-N) 228~478Vac | | | | | |
| Rated frequency | 50 / 60 Hz | | | | | |
| 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 | <3% (linear 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, 50/60 Hz ± 0.1 Hz 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 | | | | | | |
| DC voltage | Long time model: ±240VDC (selectable, 32 - 40pcs) | | | | | |
| Standard model battery voltage | (10+10) x 9AH | (20+20) x 7AH | (20+20) x 9AH | (15+15) x 9AH x 2 strings | (20+20) x 9AH x 2 strings | / |
| Charging current | 10A Max. | | | | 15A Max. | 20A Max. |
| Charger voltage precision | 1% | | | | | |
| SYSTEM | | | | | | |
| Display | 5 inches touch screen | | | | | |
| Efficiency | 95% Max. | | | | 96% Max. | |
| Transfer time | 0 ms | | | | | |
| 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) | | | | | |
| Altitude | <1000m, load derated 1% per 100m from 1000 ~ 2000m | | | | | |
| Noise level at 1 m | 58dB Max. | | | 62dB Max. | | |
| OTHERS | | | | | | |
| Dimensions (W × D × H) (mm) | 250 x 720 x 560 (S) 250 x 720 x 560 (H) | 250 x 800 x 700 (S) 250 x 720 x 560 (H) | 250 x 840 x 930 (S) 250 x 840 x 650 (H) | 350 x 800 x 1280(S) 250 x 720 x 560 (H) | 250 x 790 x 560 (H) | |
| Packaged dimensions (W × D × H) (mm) | 350 x 800 x 722 (S) 350 x 800 x 718 (H) | 350 x 900 x 862 (S) 350 x 800 x 718 (H) | 350 x 950 x 1102 (S) 350 x 980 x 810 (H) | 450 x 900 x 1400 (S) 350 x 800 x 718 (H) | 350 x 850 x 818 (H) | |
| Net weight (kg) | 82 (S) 31 (H) | 131 (S) 33 (H) | 145 (S) 33 (H) | 215 (S) 42 (H) | 300 (S) 42 (H) | 48 (H) |
| Gross weight (kg) | 93 (S) 40 (H) | 142 (S) 42 (H) | 156 (S) 42 (H) | 227 (S) 52 (H) | 310 (S) 52 (H) | 58 (H) |

- S means standard model, H means long time model.
- Derate capacity to 90% when the number of batteries is set to 32 pcs for 40kVA/60kVA model.

- Custom-made specifications are acceptable.
- All specifications are subject to change without notice.
- Derate capacity to 60% when used at 3:1.