

True online UPS

Double Conversion High Frequency

EA 906 G4

6KVA 5400W



Features

- Advanced DSP and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (110 ~ 288 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

| Indicators | Description |
|------------|--|
| 1. INV | Inverter indicator: green—inverter is normal, green flicker—rectifier or inverter is starting or tracking with bypass(ECO), dark—rectifier and inverter is not working |
| 2. BAT | Battery indicator: yellow—battery discharged, yellow flicker—No battery or battery alarm, dark—battery is connected Bypass indicator: yellow—bypass is normal, yellow flicker—bypass is abnormal and alarm ,dark—UPS is in normal mode and bypass is normal |
| 3. BYP | |
| 4. FAULT | FAULT indicator: red—UPS is abnormal, red flicker—UPS alarm ,dark—UPS is normal |



Specifications

| MODEL | EA-906G4 |
|--------------------------------------|--|
| Capacity | 6KVA 5400W |
| INPUT | |
| Input wiring | Single-phase three-wire (1Φ + N + PE) |
| Rated voltage | 208 / 220 / 230 / 240 Vac |
| Voltage range | 110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating) |
| Rated frequency | 50 / 60 Hz (auto-sensing) |
| Frequency range | 40 ~ 70 Hz |
| Power factor | ≥ 0.99 |
| Bypass voltage range | - 40% ~ +15% (settable) |
| Total harmonic distortion (THDi) | ≤ 5% |
| OUTPUT | |
| Output wiring | Single-phase three-wire (1Φ + N + PE) |
| Rated voltage | 208 (PF=0.9) / 220 / 230 / 240 Vac |
| Voltage regulation | ± 1% |
| Frequency | Synchronized to bypass in mains mode; 50 / 60 Hz±0.1% Hz in battery mode |
| Waveform | Sinusoidal |
| Power factor | 0.9 |
| Total harmonic distortion (THDv) | ≤ 1% (linear load); ≤ 4% (non-linear load) |
| Crest factor | 3:1 |
| Overload | 105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s |
| BATTERIES | |
| DC voltage | 192 Vdc (192 ~ 240 Vdc settable) |
| Number of battery | 16 pcs (16 ~ 20 settable) |
| Inbuilt battery (standard model) | 12 V / 7 Ah × 16 |
| Charging current | 1 A |
| Recharge time | Standard model: 90% capacity restored in 8 hours |
| SYSTEM | |
| Efficiency | ≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode |
| Transfer time | 0 ms |
| Protections | Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure |
| Max. number of parallel connections | 4 |
| Communications | RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional) |
| Display | LCD + LED |
| OTHERS | |
| Operating temperature | 0°C ~ 40°C |
| Storage temperature | -25°C ~ 55°C (without battery) |
| Relative humidity | 0 ~ 95% (non-condensing) |
| Altitude | ≤ 1000 m, derating 1% for each additional 100 m |
| IP rating | IP 20 |
| Noise level at 1 m | ≤ 55 dB |
| Dimensions (W × D × H) (mm) | 191 × 465 × 711 |
| Packaged dimensions (W × D × H) (mm) | 310 × 654 × 941 |
| Net weight (kg) | 53 |
| Gross weight (kg) | 61 |

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

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 and Green Energy Company