

EA900RT G3

Li-ion model  
1 kVA ~ 3 kVA  
PF 0.9



Features

- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Effective software and hardware protection
- Linear derating in low voltage input reducing battery discharging times
- Fan speed varies intelligently with temperature, reducing noise and extending its service life

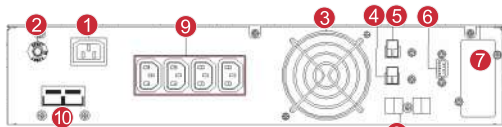
- Use lithium battery
- High reliability, high power and energy density  
Providing greater autonomy (15 min at full load for standard model UPS)
- Long cycle life (≥ 2000 cycle times)
- Greater performance at high/low temperature
- Advanced battery management (ABM)
- Rotatable display panel
- Multi-platform communications: RS232 (standard), USB/RS485/SNMP/dry contacts (optional)

Available Options

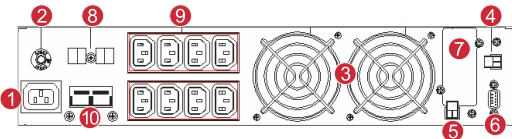
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, MBS (External maintenance bypass switch)

Rear Panel

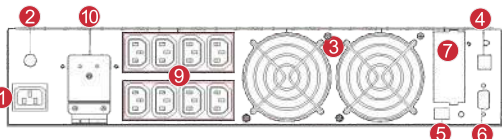
- 1.AC input socket
- 2.Overcurrent protector
- 3.Fan
- 4.USB port
- 5.EPO (Emergency Power Off) port
- 6.RS232 port
- 7.Intelligent slot
- 8.Surge protection for network/fax/modem
- 9.Output sockets
- 10.Battery connector



1KVA S/H



2KVA S/H



3KVA S/H

Specifications

| MODEL                            | EA901SRT                                                                                                                                                                                              | EA901HRT        | EA902SRT             | EA902HRT        | EA903SRT             | EA903HRT        |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| Capacity                         | 1 kVA / 900 W                                                                                                                                                                                         |                 | 2 kVA / 1800 W       |                 | 3 kVA / 2700 W       |                 |
| INPUT                            |                                                                                                                                                                                                       |                 |                      |                 |                      |                 |
| Rated voltage                    | 208 / 220 / 230 / 240 Vac                                                                                                                                                                             |                 |                      |                 |                      |                 |
| Voltage range                    | 110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)                                                                                  |                 |                      |                 |                      |                 |
| Frequency                        | 40 ~ 70 Hz (auto-sensing)                                                                                                                                                                             |                 |                      |                 |                      |                 |
| Power factor                     | ≥ 0.99                                                                                                                                                                                                |                 |                      |                 |                      |                 |
| Bypass voltage range             | -25% ~ +15% (settable)                                                                                                                                                                                |                 |                      |                 |                      |                 |
| Total harmonic distortion (THDi) | ≤ 6%                                                                                                                                                                                                  |                 |                      |                 |                      |                 |
| OUTPUT                           |                                                                                                                                                                                                       |                 |                      |                 |                      |                 |
| Voltage                          | 208 / 220 / 230 / 240 Vac (settable via LCD)                                                                                                                                                          |                 |                      |                 |                      |                 |
| Voltage regulation               | ± 1%                                                                                                                                                                                                  |                 |                      |                 |                      |                 |
| Frequency                        | 45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)                                                                                                                     |                 |                      |                 |                      |                 |
| Waveform                         | Sinusoidal                                                                                                                                                                                            |                 |                      |                 |                      |                 |
| Power factor                     | 0.9                                                                                                                                                                                                   |                 |                      |                 |                      |                 |
| Total harmonic distortion (THDv) | ≤ 2% (linear load); ≤ 5% (non-linear load)                                                                                                                                                            |                 |                      |                 |                      |                 |
| Crest factor                     | 3:1                                                                                                                                                                                                   |                 |                      |                 |                      |                 |
| Overload                         | 105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms                                                                                                                                        |                 |                      |                 |                      |                 |
| BATTERIES                        |                                                                                                                                                                                                       |                 |                      |                 |                      |                 |
| Battery type                     | Lithium iron phosphate Battery                                                                                                                                                                        |                 |                      |                 |                      |                 |
| DC voltage                       | 25.6V                                                                                                                                                                                                 | 48V             | 51.2V                | 48V             | 76.8V                | 48V             |
| Inbuilt battery                  | 8×3.2 V / 12 Ah                                                                                                                                                                                       | /               | 16×3.2 V / 12 Ah     | /               | 24×3.2 V / 12 Ah     | /               |
| Charging current (max.)          | 1 A                                                                                                                                                                                                   | 6 A             | 1 A                  | 6 A             | 1 A                  | 6 A             |
| Recharger time                   | Standard model: 90% capacity restored in 11 hours;<br>Long time model: depend on the capacity of battery                                                                                              |                 |                      |                 |                      |                 |
| SYSTEM                           |                                                                                                                                                                                                       |                 |                      |                 |                      |                 |
| Efficiency                       | ≥ 90% (Mains mode)                                                                                                                                                                                    |                 | ≥ 91% (Mains mode)   |                 | ≥ 92% (Mains mode)   |                 |
|                                  | ≥ 85% (Battery mode)                                                                                                                                                                                  |                 | ≥ 86% (Battery mode) |                 | ≥ 87% (Battery mode) |                 |
|                                  | ≥ 95% (ECO mode)                                                                                                                                                                                      |                 | ≥ 96% (ECO mode)     |                 | ≥ 97% (ECO mode)     |                 |
| Transfer time                    | Mains mode to battery mode: 0 ms<br>Inverter mode to bypass mode: 4 ms (typical)                                                                                                                      |                 |                      |                 |                      |                 |
| Protections                      | Short-circuit, overload, overtemperature, battery discharge protection<br>and fan testing protection                                                                                                  |                 |                      |                 |                      |                 |
| Communications                   | RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)                                                                                                                                        |                 |                      |                 |                      |                 |
| Display                          | LCD + LED                                                                                                                                                                                             |                 |                      |                 |                      |                 |
| Standards                        | EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1 |                 |                      |                 |                      |                 |
| OTHERS                           |                                                                                                                                                                                                       |                 |                      |                 |                      |                 |
| Operating temperature            | 0℃ ~ 40℃                                                                                                                                                                                              |                 |                      |                 |                      |                 |
| Storage temperature              | -25℃ ~ 55℃ (without batteries)                                                                                                                                                                        |                 |                      |                 |                      |                 |
| Relative humidity                | 0~95% (non-condensing)                                                                                                                                                                                |                 |                      |                 |                      |                 |
| Altitude                         | ≤ 1000 m, derating 1% for each additional 100 m                                                                                                                                                       |                 |                      |                 |                      |                 |
| IP rating                        | IP 20                                                                                                                                                                                                 |                 |                      |                 |                      |                 |
| Noise level at 1m                | ≤ 50 dB                                                                                                                                                                                               |                 |                      |                 |                      |                 |
| Dimensions (W × D × H) (mm)      | 440 × 468 × 88                                                                                                                                                                                        | 440 × 468 × 88  | 440 × 583 × 88       | 440 × 468 × 88  | 440 × 683 × 88       | 440 × 468 × 88  |
| Packaged dimensions (W×D×H) (mm) | 545 × 598 × 198                                                                                                                                                                                       | 545 × 598 × 198 | 545 × 707 × 201      | 545 × 598 × 198 | 545 × 807 × 201      | 545 × 598 × 198 |
| Net weight(kg)                   | 10.6                                                                                                                                                                                                  | 7.6             | 19                   | 9.7             | 25                   | 10.6            |
| Gross weight(kg)                 | 13.6                                                                                                                                                                                                  | 10.6            | 23                   | 14              | 29                   | 14.6            |

•Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.

•S means standard model, H means long time model.

•All specifications are subject to change without notice.

•Custom- made specifications are acceptable.