

EA900RT  
LiFePO4 (220V)  
1 kVA ~ 3 kVA  
PF 1.0

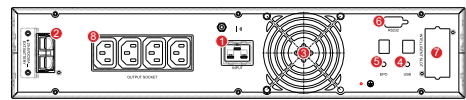


Features

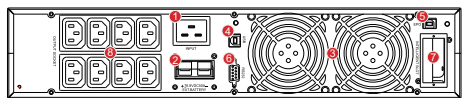
- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 1.0
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 8h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Hot-swappable battery
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, MBS (External maintenance bypass switch)

Rear Panel

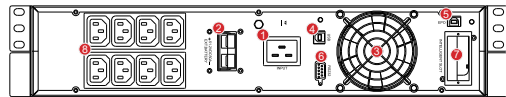
1. AC input socket
2. Battery connector (Optional)
3. Fan
4. USB (Optional)
5. EPO (Optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets



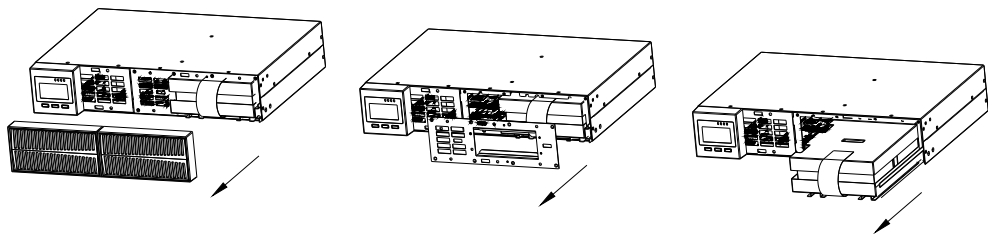
1KVASRT (25.6V)



3KVASRT (76.8V)



2KVASRT (51.2V)



Easy for maintenance, hot-swappable battery

Specifications

| MODEL                            | EA901RT LiFePO4                                                                                                                                                                                       |  | EA902RT LiFePO4      |  | EA903RT LiFePO4      |  |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|--|----------------------|--|
| Capacity                         | 1kVA / 1kW                                                                                                                                                                                            |  | 2kVA / 2kW           |  | 3kVA / 3kW           |  |
| 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                     | 1.0                                                                                                                                                                                                   |  |                      |  |                      |  |
| 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                     | LiFePO4                                                                                                                                                                                               |  |                      |  |                      |  |
| DC voltage                       | 25.6V (S)                                                                                                                                                                                             |  | 51.2V (S)            |  | 76.8V (S)            |  |
| Inbuilt battery                  | 8×3.2V/8.7Ah                                                                                                                                                                                          |  | 16×3.2V/8.7Ah        |  | 24×3.2V/8.7Ah        |  |
| Charging current (max.)          | Standard model:1A                                                                                                                                                                                     |  |                      |  |                      |  |
| Recharger time                   | Standard model: 90% capacity restored in 8 hours                                                                                                                                                      |  |                      |  |                      |  |
| 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 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°C ~ 40°C                                                                                                                                                                                            |  |                      |  |                      |  |
| Storage temperature              | -25°C ~ 55 °C (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)      | 440×316×88                                                                                                                                                                                            |  | 440×430×88           |  | 440×560×88           |  |
| Packaged dimensions (W×D×H) (mm) | 545×428×194                                                                                                                                                                                           |  | 545×560×201          |  | 545×690×201          |  |
| Net weight(kg)                   | 9                                                                                                                                                                                                     |  | 15.2                 |  | 20.8                 |  |
| Gross weight(kg)                 | 9.7                                                                                                                                                                                                   |  | 18.3                 |  | 23.7                 |  |

- Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.
- S means standard model.
- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.