

# EA900Pro

1 kVA ~ 3 kVA  
PF 0.9

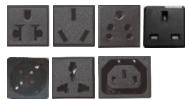


## Features

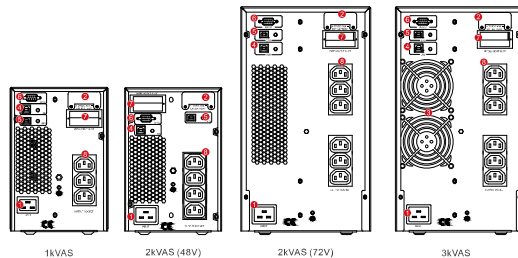
- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 4h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion 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, and 12 A charger (2/3 kVA only)

## 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



Optional outlets



## Specifications

| MODEL                            | EA901P                                                                                                                                                                                                             |                 |                 | EA902P               |                 |                 | EA903P               |          |                 |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|----------------------|-----------------|-----------------|----------------------|----------|-----------------|
| 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                        |                                                                                                                                                                                                                    |                 |                 |                      |                 |                 |                      |          |                 |
| DC voltage                       | 24 V (S)                                                                                                                                                                                                           | 36 V (S)        | 36 V (H)        | 48 V (S)             | 72 V (S)        | 72 V (H)        | 72 V (S)             | 96 V (S) | 96 V (H)        |
| Inbuilt battery                  | 2×9 Ah                                                                                                                                                                                                             | 3×7 Ah          | /               | 4×9 Ah               | 6×7 Ah          | /               | 6×9 Ah               | 8×7 Ah   | /               |
| Charging current (max.)          | 1 A                                                                                                                                                                                                                |                 | 6 A             | 1 A                  |                 | 6 A             | 1 A                  |          | 6 A             |
| Recharge time                    | Standard model: 90% capacity restored in 3 hours; 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 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, IEC 62040-3 |                 |                 |                      |                 |                 |                      |          |                 |
| 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)          | 144 x 312 x 216                                                                                                                                                                                                    | 144 x 317 x 216 | 144 x 336 x 216 | 144 x 417 x 216      | 191 x 419 x 335 | 191 x 418 x 335 | 191 x 419 x 335      |          | 191 x 418 x 335 |
| Packaged dimensions (W×D×H) (mm) | 230 x 402 x 315                                                                                                                                                                                                    | 230 x 460 x 315 | 232 x 417 x 318 | 230 x 506 x 315      | 277 x 500 x 435 | 318 x 533 x 471 | 277 x 500 x 435      |          | 277 x 500 x 435 |
| Net weight (kg)                  | 11                                                                                                                                                                                                                 | 12.8            | 6               | 16.4                 | 23.1            | 10.5            | 24.3                 | 29.4     | 11              |
| Gross weight (kg)                | 11.3                                                                                                                                                                                                               | 14              | 7               | 17.8                 | 24.7            | 12              | 25.9                 | 31.1     | 12.5            |

- 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.