

EA900Pro RT

1 kVA ~ 3 kVA
PF 0.9



Features

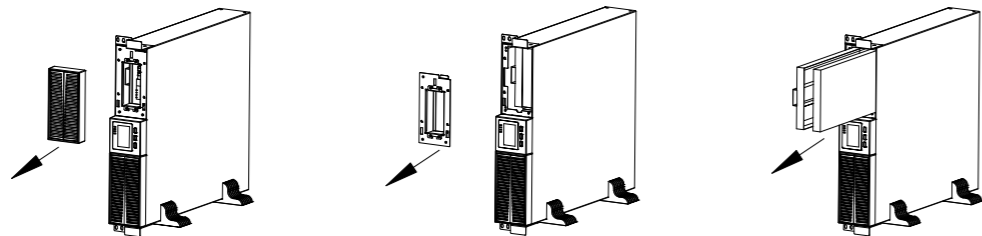
- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3 h (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, ECO mode and frequency conversion mode
- 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. Overcurrent Protection
2. AC Input
3. DC Input
4. Outlets
5. FAN
6. RS232
7. EPO (optional)
8. USB (optional)
9. Intelligent Slot



Easy for maintenance, hot-swappable battery

Specifications

MODEL	EA901PSRT	EA901PHRT	EA902PSRT	EA902PHRT	EA903PSRT	EA903PHRT		
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)	48V (S)	72 V (S)	72 V (H)	72 V (S)	96 V (H)
Inbuilt battery	2 × 9 Ah	3 × 7 Ah	/	4 × 9 Ah	6 × 7 Ah	/	6 × 9 Ah	/
Charging current (max.)	1 A		6 A		1 A		6 A	
Recharger 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 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 × 338 × 88	440 × 444 × 88	440 × 468 × 88	440 × 528 × 88	440 × 728 × 88	440 × 468 × 88	440 × 728 × 88	440 × 468 × 88
Packaged dimensions (W × D × H) (mm)	545 × 485 × 201	545 × 568 × 201	545 × 592 × 201	545 × 652 × 201	545 × 852 × 201	545 × 592 × 201	545 × 852 × 201	545 × 592 × 201
Net weight(kg)	12.3	15.8	7.6	21.9	27.2	9.7	30.6	10.1
Gross weight(kg)	14.3	18.9	11.1	25.5	31.3	13.2	34.0	13.6

- 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.