

EA900Pro

1 kVA ~ 3 kVA
PF 0.9



Features

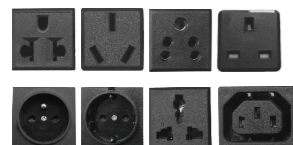
- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 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
- 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, and 12 A charger (2/3 kVA only)

Rear Panel

1. Overcurrent Protection
2. AC Input
3. Modem/Tel/Fax
4. DC Input
5. Outlets
6. Fan
7. RS232
8. USB (optional)
9. EPO (optional)
10. SNMP/AS400 (optional)



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	
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 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 × 336 × 214	144 × 414 × 214	144 × 336 × 214	191 × 418 × 335				191 × 464 × 335	191 × 418 × 335	
Packaged dimensions (W × D × H) (mm)	232 × 417 × 318	230 × 492 × 320	232 × 417 × 318	318 × 533 × 471				320 × 573 × 472	318 × 533 × 471	
Net weight (kg)	9.5	13	6	18	25.8	10.5	27.2	32	11	
Gross weight (kg)	10.5	14.2	7	19.5	27.4	12	29	34	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.