

# EA900

1KVA ~ 10KVA  
PF 0.9



## Specifications

MODEL	EA901	EA902	EA903	EA906	EA9010
Capacity	1KVA / 900W	2KVA / 1800W	3KVA / 2700W	6KVA / 5400W	10KVA / 9000W
<b>INPUT</b>					
Rated voltage	100V / 110V / 115V / 120V / 127 Vac			208V / 220 Vac	
Voltage range	(55 ~ 145) ± 5 Vac (60% load); (65 ~ 145) ± 5 Vac (70% load) (75 ~ 145) ± 5 Vac (80% load); (85 ~ 145) ± 5 Vac (100% load)			Half load (115 ~ 295) ± 5 Vac Full load (165 ~ 295) ± 5 Vac	
Frequency	45 ~ 55Hz ± 0.5% or 55~65Hz ± 0.5% (auto-sense)			40 ~ 70Hz ± 0.5% (auto-sense)	
Power factor	≥ 0.98			≥ 0.99	
Bypass voltage range	(95 ~ 135) ± 5 Vac			160V ~ 252 Vac	
<b>OUTPUT</b>					
Voltage regulation	100V / 110V / 115V / 120V / 127 Vac (settable via LCD)			110V / 120 Vac: 220V / 240 Vac	
Voltage	± 1%				
Frequency	Synchronized with utility in mains mode; 50/60 ± 0.2Hz in battery mode				
Waveform	Sinusoidal				
Crest factor	3:1				
Harmonic distortion	≤ 3% (linear load); ≤ 5% (non-linear load)			≤ 2% (linear load); ≤ 5% (non-linear load)	
Transfer time	Mains mode to battery mode: 0 ms			Mains mode to battery mode: 0 ms	
	Inverter mode to bypass mode: 4 ms (typical)			Inverter mode to bypass mode: 0 ms	
Overload capability	105% ~ 150%: transfer to bypass in 30 s; > 150%: transfer to bypass in 300 ms			105% ~ 125%: transfer to bypass in 3 mins; 125% ~ 150%: transfer to bypass in 30 s; > 150%: transfer to bypass in 100 ms	
<b>EFFICIENCY</b>					
Mains mode	≥ 90%			≥ 92%	
Battery mode	≥ 87%			≥ 91%	
ECO mode	≥ 98%			≥ 98%	
<b>BATTERIES</b>					
DC voltage	24V	48V	72V	192V	
Inbuilt battery of standard model	2 x 9Ah	4 x 9Ah	6 x 9Ah	16 x 7Ah	16 x 9Ah
Charging current	Standard model	1A			
	Long time model	6A			1A / 3A / 5A / 8A
Typical recharge time	8 h				
<b>ALARM</b>					
Utility failure	Beep / 4s				
Battery low	Beep / 1s				
Overload	Beep twice / 1s				
UPS fault	Long beep				
<b>ENVIRONMENT</b>					
Humidity	20~90% RH @ 0~40°C (non-condensing)				
Noise level	≤ 50dB (1m)			≤ 55dB (1m)	
<b>COMMUNICATIONS</b>					
RS232 (standard) / USB (option)	Supports Windows® 98/2000/2003/XP/Vista/2008/ Windows® 7/8/10				
SNMP (option)	Power management from SNMP manager and web browser				
<b>OTHERS</b>					
Long time model	Dimensions (mm) W x D x H	144 x 357 x 215	190 x 452 x 341	262 x 690 x 455	
	Packaged dimensions (mm) W x D x H	230 x 445 x 315	320 x 550 x 462	360 x 790 x 540	
Standard model	Net/Gross weight (kg)	6.0 / 7.0	12.0 / 13.3	47.0 / 49.5	50.0 / 52.5
	Dimensions (mm) W x D x H	144 x 357 x 215	190 x 452 x 341	262 x 690 x 735	
Standard model	Packaged dimensions (mm) W x D x H	230 x 445 x 315	320 x 550 x 462	360 x 790 x 820	
	Net/Gross weight (kg)	11.0 / 13.5	20.0 / 21.5	24.0 / 25.5	87.0 / 95.0

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

## Features

- High frequency and true double-conversion
- DSP digital control technology
- Input power factor correction (PFC)
- Wide input voltage range
- Output power factor 0.9 (optional)
- Cold start
- Auto sensing frequency
- ECO mode operation for energy saving
- Selectable output voltage via LCD
- Output bypass settable for 1,2,3KVA via LCD
- 50Hz/60Hz frequency conversion mode available on 6 ~ 10KVA
- 6 ~ 10KVA built in output isolation transformer
- Selectable battery low voltage via LCD
- Power-on self test
- Advanced battery management (ABM)
- Short circuit and overload protection
- Automatic charging in OFF mode
- Fan speed auto control when loads varies
- Standard RS232 communication port and RJ45 protection
- Optional USB/SNMP communication port
- Optional emergency power off (EPO)
- Optional extension battery bank
- Optional manual bypass on 6 ~ 10KVA
- Optional N+X redundancy parallel on 6 ~ 10KVA

## Rear Panel

1. Overcurrent Protection
2. AC Input
3. Modem/Tel/Fax
4. DC Input
5. Outlet
6. FAN
7. RS232
8. USB (optional)
9. EPO (optional)
10. Manual Bypass (optional)
11. SNMP/AS400 (optional)
12. Breaker
13. Parallel Card (optional)
14. BAT\_NTC (optional)

