EA900 G3

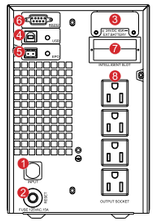
1 kVA ~ 3 kVA
PF 0.9 / 1.0

Features

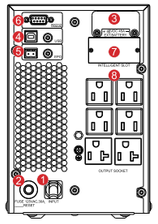
- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9 / 1.0
- Wide input voltage range (50 V ~ 150 V) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 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
- 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

Rear Panel

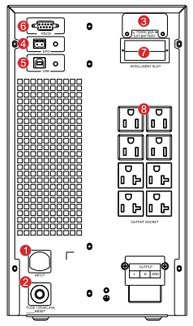
1. AC input socket
2. Overcurrent protection
3. Battery connector (Optional)
4. USB (Optional)
5. EPO (Optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets



1kVA(24V)



2kVA(48V)



3kVA(72V)

Specifications

MODEL	EA901	EA902	EA903
Capacity	1kVA / 1kW	2kVA / 2kW	3kVA / 3kW
INPUT			
Rated voltage	100 / 110 / 115 / 120 / 127 Vac		
Voltage range	50 ~ 80 Vac (linear derating between 50% and 100% load); 80 ~ 150 Vac (no derating)		
Frequency range	40 ~ 70 Hz (auto-sensing)		
Power factor	≥ 0.99		
Bypass voltage range	-25% ~ +15% (settable)		
Rated input frequency	50 Hz / 60 Hz (auto-sense)		
THDi	≤ 6%		
OUTPUT			
Voltage	100 / 110 / 115 / 120 / 127 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 / 1.0		
THDv	≤ 2% (linear load), ≤ 5% (non-linear load)		
Crest factor	3:1		
Overload	108% ~ 127% for 1 min; 127% ~ 150% for 30 s; >150% for 100 ms		
BATTERIES			
Battery type	Sealed lead acid maintenance free battery		
DC voltage	24 V (S) / 24 V (H)	48 V (S) / 48 V (H)	72 V (S) / 72 V (H)
Inbuilt battery	2 × 9 Ah / /	4 × 9 Ah /	6 × 9 Ah /
Charging current (max.)	1 A / 4 A / 10 A	1 A / 4 A / 10 A	1 A / 4 A / 10 A
Recharge time	Standard model: 90% capacity restored in 8 hours Long time model: depend on the capacity of battery		
SYSTEM CONTROL AND COMMUNICATIONS			
Effciency	≥ 90% (Mains mode)		
	≥ 85% (Battery mode)		
	≥ 95% (ECO mode)		
Transfer time	Mains mode to battery mode: 0ms; Inverter mode to bypass mode: 4ms (typical)		
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection		
Communication port	RS232 (standard); USB / RS485 / SNMP / dry contacts(options)		
Display	LCD+LED		
ENVIRONMENTAL			
Operating humidity	0 ~ 95 % RH @ 0 ~ 40°C (non-condensing)		
Storage temperature	-25°C ~ 55°C (exclude batteries)		
Operating altitude	≤ 1000m, above 1000m, derating 1% for each rising 100m		
Protection class	IP20		
Noise level	≤ 50dB		
OTHERS			
Dimensions (W × D × H) (mm)	144×315×211	144×374×216 / 144×450×211	144×480×216 / 191×437×335 / 191×458×335
Packaged dimensions (W × D × H) (mm)	230×402×315	230×457×320 / 230×536×315	230×570×320 / 277×500×435 / 277×530×435
Net weight (kg)	9.9	6.3/6.8 / 17.6	8.6/9.1 / 26 / 17.7/18.2
Gross weight (kg)	10.9	7.5/8 / 19	11.2/11.7 / 27.5 / 19.5/20

- Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 100Vac.
- S means standard model, H means long time model.
- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.