

EA900RT

LiFePO4 (120V)

1 kVA ~ 3 kVA

PF 1.0

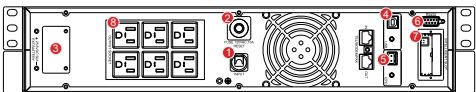


Features

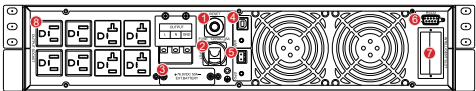
- High frequency on-line double conversion technology
 - DSP (Digital signal processing) control technology
 - Active power factor correction (APFC), input power factor up to 0.99
 - Output power factor 1.0
 - Wide input voltage range (50 V ~ 150 V) and frequency range (40 ~ 70 Hz)
 - Auto sensing frequency
 - 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; MBS (External maintenance bypass switch)

Rear Panel

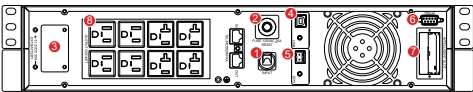
1. AC input socket
 2. Overcurrent protection
 3. Battery connector (Optional)
 4. USB (Optional)
 5. EPO (Optional)
 6. RS232
 7. Intelligent slot (Optional)
 8. Output sockets



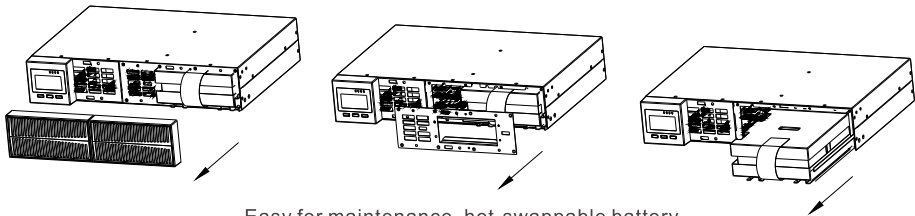
1KVASRT (25.6V)



3KVASRT (76.8V)



2KVASRT (51.2V)



Easy for maintenance, hot-swappable battery

Specifications

MODEL	EA901RT LiFePO4		EA902RT LiFePO4		EA903RT LiFePO4	
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	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	LiFePO4					
DC voltage	25.6V (S)		51.2V (S)		76.8V (S)	
Inbuilt battery	8×3.2V/8.7Ah		16×3.2V/8.7Ah		24×3.2V/8.7Ah	
Charging current (max.)	1 A					
Recharge time	Standard model: 90% capacity restored in 8 hours					
SYSTEM CONTROL AND COMMUNICATIONS						
Efficiency	≥ 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)	440×316×88		440×468×88		440×560×88	
Packaged dimensions (W × D × H) (mm)	545×428×194		545×592×198		545×690×201	
Net weight (kg)	9.2		12.8		18	
Gross weight (kg)	9.9		16.3		21	

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