

EA900 G4 Li

10 kVA ~ 20 kVA  
(3:1 / 1:1)  
PF1.0



Features

- High frequency on-line double conversion technology
- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range ( 190 ~ 478 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 60 ~ 80 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery

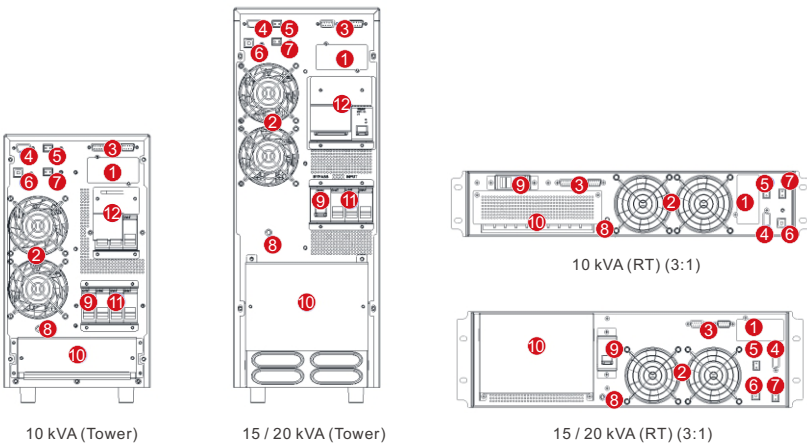
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

Rear Panel

1. SNMP (optional)
2. Fans
3. Parallel (optional)
4. RS232
5. EPO
6. USB (optional)
7. Temperature compensation (optional)
8. PE
9. Bypass breaker
10. Terminal and cover
11. Input breaker
12. Maintain bypass breaker (optional)



Specifications

MODEL	EA9010 Li (3:1)		EA9015 Li (3:1)		EA9020 Li (3:1)	
Capacity	10kVA / 10kW		15kVA / 15kW		20kVA / 20kW	
INPUT						
Input wiring	Three-phase five-wire (3Φ + N + PE)					
Rated voltage	380 / 400 / 415 Vac					
Voltage range	305 ~ 478 Vac (no derating) 190 ~ 305 Vac (linear derating between 50% and 100% load)					
Rated frequency	50 / 60 Hz (auto-sensing)					
Frequency range	40 ~ 70 Hz					
Power factor	≥ 0.99					
Bypass voltage range	- 40% ~ +15% (settable)					
Total harmonic distortion (THDi)	≤ 5%					
OUTPUT						
Output wiring	Single-phase (L-N)					
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac					
Voltage regulation	± 1%					
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode					
Waveform	Sinusoidal					
Power factor	1					
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)					
Crest factor	3:1					
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s					
BATTERIES						
DC voltage	192 Vdc (192 ~ 256 Vdc settable)					
Number of battery	60 pcs (60 ~ 80 settable)					
Charging current	5 A (default), 1 ~ 5 A settable; 10 A (optional)					
Recharge time	Depend on the capacity of battery					
SYSTEM						
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode					
Transfer time	0 ms					
Protections	Short-circuit, output overload, overtemperature, battery low voltage, overvoltage / undervoltage and fan failure					
Max. number of parallel connections	4					
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)					
Display	LCD + LED					
OTHERS						
Operating temperature	0℃ ~ 40℃					
Storage temperature	-25℃ ~ 55℃ (without battery)					
Relative humidity	0 ~ 95% (non-condensing)					
Altitude	≤ 1000 m, derating 1% for each additional 100 m					
IP rating	IP 20					
Noise level at 1 m			≤ 58 dB			
Dimensions (W × D × H) (mm)	191 × 495 × 350 (Tower) 440 × 650 × 88 (RT)		191 × 495 × 515 (Tower) 440 × 780 × 132 (RT)			
Packaged dimensions (W × D × H) (mm)	318 × 617 × 475 (Tower) 514 x 696 x 168 (RT)		285 × 593 × 618 (Tower) 554 x 792 x 400 (RT)			
Net weight (kg)	18.5 (Tower), 17 (RT)		26.5 (Tower), 25.5 (RT)			
Gross weight (kg)	20 (Tower), 19 (RT)		28 (Tower), 28 (RT)			

• All specifications are subject to change without notice.