

EA900G4

6 kVA ~ 20 kVA (1:1)

6 kVA ~ 20 kVA (3:1)



Features

- Advanced DSP (Digital signal processors) technology
- Variable speed fan
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check
- Advanced digital parallel technology
- Wide input voltage range, 50 / 60 Hz frequency auto sensing
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Dual-input design, supporting independent bypass
- Output power factor improved from 0.9 to 1, load capacity increased by 13%
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Charging voltage and current configured by demands
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output

- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration and online updating
- Compact internal layout, miniaturized the complete unit for small footprint
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Automatic power On / Off according to the load capacity set by users
- Equipped with self-aging function

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. RS232
2. EPO
3. Parallel port
4. USB
5. Battery temperature option
6. SNMP
7. Reserved: for customer function such as manual bypass, battery breaker, socket ect.
8. Fans
9. Bypass breaker
10. Input breaker
11. GND
12. Terminals and terminal cover



6/10 kH (1:1)

6/10 kH (3:1)

6/10 kS (1:1)

6/10 kS (3:1)

15/20 kH (1:1 & 3:1)

Specifications

MODEL	6 kVA (1:1)	10 kVA (1:1)	15 kVA (1:1)	20 kVA (1:1)	6 kVA (3:1)	10 kVA (3:1)	15 kVA (3:1)	20 kVA (3:1)
Capacity	6 kVA / 6000 W	10 kVA / 10000 W	15 kVA / 15000 W	20 kVA / 20000 W	6 kVA / 6000 W	10 kVA / 10000 W	15 kVA / 15000 W	20 kVA / 20000 W
INPUT								
Input wiring	Single-phase three-wire (1Φ + N + PE)				Three-phase five-wire (3Φ + N + PE)			
Rated voltage	208 V / 220 V / 230 V / 240 Vac				380 V / 400 V / 415 Vac			
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)				190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)			
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							
Rated voltage	208 V (PF=0.9) / 220 V / 230 V / 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); ≤ 4% (non-linear load)				≤ 1% (linear load); ≤ 3% (non-linear load)			
Crest factor	3:1							
Overload capability	102% ~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 150% for 30 s							
BATTERIES								
DC voltage	192 Vdc (192 / 240 Vdc settable)							
Number of battery	16 pcs (16 ~ 20 settable)							
Inbuilt battery (standard model)	12/7 Ah x 16	12/9 Ah x 16	/	/	12/7 Ah x 16	12/9 Ah x 16	/	/
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 12 A (6-10 kVA optional); 10 A (15-20 kVA optional)				Long time model: 5 A (default), 1 ~ 5 A settable; 10 A (optional)			
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery							
SYSTEM								
Efficiency	94% at 100% load, 95% (6k: 94.5%) at 60% load; ≥ 98% in ECO mode							
Switching time	0 ms							
Protections	Short-circuit, 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°C ~ 40°C							
Storage temperature	-25°C ~ 55°C (without battery)							
Humidity	0 ~ 95% (non-condensing)							
Altitude	≤ 1000 m, derating 1% for each additional 100 m							
IP rating	IP 20							
Noise level at 1 m	≤ 55 dB				≤ 58 dB			
Dimensions (W x D x H) (mm)	191 x 465 x 711 (S) 191 x 465 x 350 (H)	191 x 495 x 711 (S) 191 x 495 x 350 (H)	191 x 495 x 515 (H)		191 x 495 x 711 (S) 191 x 495 x 350 (H)	191 x 495 x 515 (H)		
Packaged dimensions (W x D x H) (mm)	654 x 310 x 941 (S) 595 x 318 x 475 (H)	685 x 310 x 941 (S) 617 x 318 x 475 (H)	593 x 285 x 618 (H)		685 x 310 x 941 (S) 617 x 318 x 475 (H)	593 x 285 x 618 (H)		
Net weight (kg)	53 (S) 14.5 (H)	62 (S) 16.5 (H)	26.5 (H)		58.5 (S) 18.5 (H)	64 (S) 18.5 (H)	26.5 (H)	
Gross weight (kg)	61 (S) 16 (H)	70 (S) 18 (H)	28 (H)		66.5 (S) 20 (H)	72 (S) 20 (H)	28 (H)	

* S means standard model; H means long time model.
* All specifications are subject to change without notice.