## EA990 G4

10 kVA ~ 30 kVA (3:3) PF 1.0



## Features

- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 95%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range
- 50 / 60 Hz auto-sensing frequency
- 50 / 60 Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Flexible battery configuration setting, selectable battery numbers: 32~ 40 pcs
- Digitally controlled charger (Max.10 A & 20% output power)
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- $\bullet \ {\sf Zero} \ {\sf switching} \ {\sf time} \ {\sf for} \ {\sf UPS} \ {\sf power} \ {\sf supply} \ {\sf mode} \ {\sf when} \ {\sf the} \ {\sf mains} \ {\sf power} \ {\sf is} \ {\sf unstable}, \ {\sf ensuring} \ {\sf the} \ {\sf output} \ {\sf is} \ {\sf uninterrupted}$
- Compact internal layout, small footprint
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232,USB,RS485,dry contacts, SNMP card,Wi-Fi card and GPRS card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Standard RS232,USB,RS485,EPO,Dry contacts,Parallel port
- Optional SNMP card, WI-FI card, GPRS card, SMS alarms

## **Specifications**

MODEL	EA9910	EA9915	EA9920	EA9930	
Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW	30 kVA / 30 kW	
INPUT					
Rated voltage	380 / 400 / 415 Vac (L-L)				
Voltage range	304~478Vac (L-L),full load				
voltage range	228V~304Vac (L-L), load decrease linearly according to the min phase voltage				
Rated frequency	50 / 60 Hz (auto-sensing)				
Frequency range	40 ~ 70 Hz				
Power factor	> 0.99				
Bypass voltage range	Selectable, default -20%~+15%				
	Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%				
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz				
Total harmonic distortion (THDi)	<3% (full Linear Load)				
Bypass overload	125%: Long term operation; 125%~130%: 10min; 130%~150%: 1min;				
bypass overload	150%~400%: 1s; >400%, less than 200ms				
OUTPUT					
Rated Voltage	380 / 400 / 415 Vac ( L-L )				
Voltage regulation	±1% (full Linear Load)				
Frequency	Synchronized with utility in mains mode, 50/60 Hz ±0.1% in battery mode				
Waveform	Sinusoidal				
Power Factor	1				
Total harmonic distortion (THDv)	<1% (full Linear Load) <3% (full non-linear load according to IEC/EN62040-3)				
Crest factor	3:1				
Overload	<110%, 60min; 110%~125%,10min; 125%~150%,1min; >150%, 200ms				
BATTERIES					
DC voltage		±240VDC(Select	able, 32 - 40pcs)		
Inbuilt battery (standard model)	(10+10) x 9AH	(20+20) x 7AH	(20+20) x 9AH	(15+15) x 9AH x 2 strings	
Charging current		10A	max		
Charger Voltage precision	1%				
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery				
SYSTEM					
Efficiency	95% Max				
Transfer time	0 ms				
Max. number of parallel connections	4				
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure				
Communications	RS232, USB, RS485, EPO, Dry contacts, Parallel port (Standard)				
Display	SNMP card, WI-FI card, GPRS card, SMS alarms (Optional)  LED + 5 inches LCD touch screen				
OTHERS	EED - O Michel EOD (Oddin Solecti				
Operating temperature	0℃~40℃				
Storage temperature	-40℃ ~70℃				
Relative humidity	0 ~ 95% (Non-condensing)				
Altitude	<1000m, Load derated 1% per 100m from 1000 ~ 2000m				
Allitudo		IP 20			
IP rating		IP.			
IP rating			20	55dB @ 50% load	
IP rating Noise level at 1 m	55dB @ 100% loa	ad, 52dB @ 50% load	20 58dB @ 100% load		
			20 58dB @ 100% load, x 700 (S)	55dB @ 50% load 250 x 840 x 930 (S) 250 x 840 x 650 (H)	
Noise level at 1 m  Dimensions (W × D × H) (mm)  Packaged dimensions	55dB @ 100% loa 250 x 720 x 560 (S) 250 x 720 x 560 (H) 350 x 800 x 722 (S)	ad, 52dB @ 50% load 250 x 800 250 x 720 350 x 900	20 58dB @ 100% load, x 700 (S) x 560 (H) x 862 (S)	250 x 840 x 930 (S) 250 x 840 x 650 (H) 350 x 950 x 1102 (S)	
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<sup>•</sup> S means standard model, H means long time model.

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<sup>•</sup> All specifications are subject to change without notice.

<sup>•</sup> Custom-made specifications are acceptable.