EA990 G5

40 kVA ~ 120 kVA
208 V (3:3)
PF 1.0

Features

- High frequency on-line double conversion technology
- 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 92%, 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
- 50/60Hz auto-sensing frequency
- 50/60Hz frequency conversion mode
- Work efficiency up to 98.5% 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: 20~28 pcs
- Digitally controlled charger
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Compact internal layout, small footprint
- 5/7 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	EA9940	EA9960	EA9980	EA99100	EA99120
Power rating	40 kVA / 40 kW	60 kVA / 60 kW	80 kVA / 80 kW	100 kVA / 100 kW	120 kVA / 120 kW
INPUT					
Rated voltage	208/220Vac (3Φ + N + PE)				
Voltage range	176~250Vac (L-L), full load; 125V~176Vac (L-L), load decrease linearly according to the min phase voltage				
Rated frequency	50/60Hz				
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				
Input current THDi	<3% (linear load)				
Bypass overload	125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms				
OUTPUT					
Rated inverter voltage	208/220Vac (3Φ + N + PE)				
Voltage precision	±1% (linear load)				
Frequency	Synchronized with utility in mains mode, 50/60Hz±0.1 in battery mode				
Waveform	Sinusoidal				
Power factor	1				
Total harmonic distortion (THDv)	<2% (full linear load); <4% (full non-linear load according to IEC/EN62040-3)				
Crest factor	3:1				
Inverter overload	<110%, 60min; 110%~125%, 5min; 125%~150%, 1min; >150%, 200ms				
BATTERIES					
Long run model battery voltage	±120VDC (selectable, 20-28pcs)				
Charging current	30A	40A	60A		
Charger voltage precision	<1%				
SYSTEM					
Display	Default: 5 inch touch screen		Default: 7 inch touch screen		
Efficiency	92%				
Transfer time	0ms				
Interface	Standard: RS232, RS485, USB, Battery cold start; Option: programmable dry contact, SNMP, Parallel kit				
ENVIRONMENT					
Operating temperature	0°C~40°C				
Storage temperature	-40°C~70°C				
Relative humidity	0~95% (non condensing)				
Noise level at 1m	<70dB				
Altitude	<1000m, load derated 1% per 100m from 1000~2000m				
OTHERS					
Dimensions (W × D × H) (mm)	360 x 733 x 1185	360 x 808 x 1185	440 x 833 x 1250		
Packaged dimensions (W × D × H) (mm)	450 x 830 x 1351	460 x 950 x 1343	540 x 950 x 1408		
Net weight (kg)	141	160	230		
Gross weight (kg)	149	170	239		

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.