EA990 G4

40 kVA ~ 200 kVA (3:3) PF 1.0



Features

- High frequency on-line double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Output power factor 1.0
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency improved to 96%, energy saving rate is doubled
- Working efficiency up to 99% in ECO mode
- 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 Hz / 60 Hz frequency conversion mode
- Compact internal layout, small footprint
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Features strong fault tolerance, one fan damaged takes 50% of the load, two fans damaged take 30% of the load
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Effective hardware and software protection, robust self-diagnosis function, abundant event logs for future check
- Linear downgrading in low voltage input reducing battery discharging times
- Flexible battery configuration setting, selectable battery numbers: 30 ~ 44 pcs
- Digitally controlled charger (Max. 48 A)
- 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 output uninterrupted
- Settable delayed start time when mains power is restored
- \bullet 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, RJ45, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Options and accessories: RS232, USB, RS485, RJ45, parallel, dry contacts, EPO and battery temperature compensation interfaces supplied; optional SNMP card, Wi-Fi card, GPRS card, battery temperature sensor, EMD detector and SMS alarms

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Specifications

Three-phase five-wire (30+ N-120 kW/160 kW	MODEL	EA9940	EA9960	EA9980	EA99100	EA99120	EA99160	EA99200	
Three-phase five-wire (34	Capacity	40 kVA/40 kW	60 kVA/60 kW	80 kVA/80 kW	100 kVA/100 kW	120 kVA/120 kW	160 kVA/160 kW	200 kVA/200 kW	
Rated voltage	INPUT								
Voltage range	Input wiring	Three-phase five-wire (3Φ + N + PE)							
Rated frequency	Rated voltage								
Rated frequency	Voltage range	304 ~ 48							
Frequency range									
Bypass voltage range									
Total harmonic distortion (THDi) S3%	Power factor								
OUTPUT OUTPUT Three-phase five-wire (30 + N + PE) Rated voltage 380 / 400 / 415 Vac Voltage regulation ±1% Frequency Synchronized with utility in mains mode, 50 / 50 Hz ±0.1% in battery mode Waveform Sinusoidal Power factor 1 Totals harmonic distortion (THDV) ±1% (linear load) ≤ 4% (non-linear load) Crest factor 3:1 Overload 105% -110% for 60 min, 110% - 125% for 10 min, 125% - 150% for 1 min, >150% for 0.2 s SATTERIES DC voltage ±192 Vdc (±180 - ±264 Vdc settable) 40 kVA built-in battery: ±240 Vdc (80 pcs 9 Ah/12 V) Number of battery 32 pcs (30 - 44 pcs settable) Charging current (max.) 12 A 24 A 36 A 48A Recharge time Depend on the capacity of battery SYSTEM Efficiency Max. 98% in online mode, 99% in ECO mode Transfer time Oms Oms YOTHER Communications Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, frans faillure Max. pumber of parallel	Bypass voltage range								
Output wirring	Total harmonic distortion (THDi)								
Output wirring	OUTPUT								
Voltage regulation		Three-phase five-wire (3Φ + N + PE)							
Frequency Synchronized with utility in mains mode, 50 / 60 Hz ±0.1% in battery mode	Rated voltage								
Synchronized with utility in mains mode, 50 / 60 Hz ±0.1% in battery mode	Voltage regulation								
Waveform Sinusoidal 1 1 1 1 1 1 1 1 1									
Power factor 1									
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Crest factor 3:1 Overload 105% ~110% for 60 min, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, >150% for 0.2 s BATTERIES ± 192 Vdc (± 180 ~ ± 264 Vdc settable) Uc voltage ± 192 Vdc (± 180 ~ ± 264 Vdc settable) Unmber of battery 32 pos (30 ~ 44 pos settable) Charging current (max.) 12 A 24 A 36 A 48A Recharge time Depend on the capacity of battery SYSTEM Efficiency Max. 96% in online mode, 99% in ECO mode Transfer time 0 ms On ms On ms Protections Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure Max. number of parallel connections Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure Max. number of parallel connections Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card Simple control of the con		≤ 1% (linear load); ≤ 4% (non-linear load)							
Deveload									
## 192 Vdc (± 180 − ± 264 Vdc settable) DC voltage									
± 192 Vdc (± 180 ~ ± 264 Vdc settable)		103	70 11070101001	111111, 11070 123	70 101 10 111111, 123	70 130701011	111111, > 130 /0 101	J.2 3	
DC voltage	DATE LINES			+ 192 Vdc (-	- 180 ~ + 264 Vd	lc settable)			
Charging current (max.) 12 A 24 A 36 A 48A Recharge time Depend on the capacity of battery SYSTEM Efficiency Max. 96% in online mode, 99% in ECO mode Transfer time 0 ms Protections Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure Max. number of parallel connections 4 Communications Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card Display 5 inches colorful LCD touch screen OTHERS Operating temperature 0°C-40°C Storage temperature -25°C-55°C (without battery) Relative humidity 0 % ~ 95% (non-condensing) Altitude ≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m IP rating IP 20 Noise level at 1 m ≤ 65 dB Dimensions (W × D × H) (mm) 360 × 850 × 950 × 1200 440 × 850 × 1200 600 × 850 × 1200 Packaged dimensions (W × D × H) (mm) 450 × 940 × 940 × 1370 530 × 940 × 1370 700 × 950 × 1370 Net weight (kg)	DC voltage	· · · · · · · · · · · · · · · · · · ·							
Recharge time Depend on the capacity of battery SYSTEM Max. 96% in online mode, 99% in ECO mode Transfer time 0 ms Protections Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure Max. number of parallel connections 4 Communications Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card Display 5 inches colorful LCD touch screen OTHERS Operating temperature Operating temperature 0℃-40℃ Storage temperature -25℃-55℃ (without battery) Relative humidity 0% ~ 95% (non-condensing) Altitude ≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m IP rating IP 20 Noise level at 1 m ≤ 65 dB Dimensions (W × D × H) (mm) 360 × 850 × 950 × 1200 × 1200 × 1200 × 1200 × 1200 × 1200 Packaged dimensions (W × D × H) (mm) 450 × 940 × 1370 × 1200 × 1370 × 1370 × 1370 × 1370 × 1370 700 × 950 × 1370 × 1370 × 1370 × 1370 Net weight (kg) 95, 295 (built-in BAT) 130 156 158 198 250 300	Number of battery	32 pcs (30 ~ 44 pcs settable)							
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Transfer time 0 ms Protections Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure Max. number of parallel connections 4 Communications Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card Display 5 inches colorful LCD touch screen OTHERS Operating temperature 0°~40°C Storage temperature -25°~55°C (without battery) Relative humidity 0% ~ 95% (non-condensing) Altitude ≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m IP 20 Noise level at 1 m ≤ 65 dB Dimensions (W × D × H) (mm) 360 × 850	SYSTEM								
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Communications Optional configuration: SNMP card, Wi-Fi card, GPRS card Display 5 inches colorful LCD touch screen OTHERS Operating temperature Storage temperature -25 $^{\circ}$ -55 $^{\circ}$ (without battery) Relative humidity Altitude IP 20 Noise level at 1 m $\leq 65 \text{ dB}$ Dimensions (W × D × H) (mm) $\frac{360 \times 850}{\times 885}$ $\frac{360 \times 850}{\times 950}$ $\frac{360 \times 850}{\times 1200}$			4						
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IP rating Noise level at 1 m ≤ 65 dB Dimensions (W × D × H) (mm) 360 × 850 × 950 × 1200 × 1200 × 1200 440 × 850 × 1200 600 × 850 × 1200 Packaged dimensions (W × D × H) (mm) 450 × 940 × 1370 × 1370 × 1370 530 × 940 × 1370 700 × 950 × 1370 Net weight (kg) 95, 295 (built-in BAT) 130 156 158 198 250 300 Gross weight (kg) 110, 310 145 473 180 230 275 325		· · · · · · · · · · · · · · · · · · ·							
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Gross weight (kg) 110, 310 145 172 180 220 275 325		95, 295			158	198	250	300	
	Gross weight (kg)		145	172	180	220	275	325	

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable
- Derate capacity to 90% when the number of batteries is set to 30 pcs.

info@talia-ups.com