

EA660 LV

10 kVA ~ 120 kVA
PF 1.0



Highlights

High power factor 1.0

High efficiency 96%

High power density

3-level technology

2 U power module

Power flexibility from 10~120kW

Scalability & Modular hot-swappable

Low total cost of ownership

EA660 Series modular UPS is ideal for reliable, saving, intelligent and easy solutions. It ensures that a scalable, secure, high quality power supply is available for any critical high-density computer and IT environment applications, such as data centers and other critical loads.

EA660 Series (10kVA~120kVA) UPS is a high-end modular UPS with latest dual-core DSP control technology. It adopts a highly intelligent modular design which mainly contains power modules, bypass module and control module, all modules support "plug & play" to simplify UPS servicing and maintenance. The available UPS power and redundancy level can expand vertically from 10kVA/10kW to 120kVA/120kW in one single power cabinet with flexible configuration for meeting different needs. Based on superior electrical performance, perfect hardware and software protection function, EA660 Series UPS can adapt to different grid environment and provides maximum protection and high quality power for critical loads in data centers or other important applications.

Features

- Advanced dual-core DSP control technology
- True On-line, double conversion power protection, and with strong load capacity
- Compact footprint, modular Hot-swappable design simplifying maintenance and scalability
- High efficiency up to 96% in on-line mode, 99% efficiency in ECO mode
- Dual input design, independent bypass available, improving bypass availability
- Output power factor 1.0, input power factor ≥ 0.99 , input THDi $\leq 3\%$, output THDv $\leq 2\%$
- 114~277Vac wide input voltage range, 50Hz/60Hz grid self-adaptive
- Frequency conversion available: 50Hz input/60Hz output or 60Hz input/50Hz output
- Advanced digital parallel technology, improving redundancy and reliability in system
- Flexible charger parameter and battery configuration settings, battery number 16~24 pcs selectable
- Compatible with lead-acid battery and lithium battery, suitable for different types of battery configuration requirements
- Support cold start with battery and auto restart with mains power
- Settable delay time for startup when the mains power is restored, reducing the impact on the grid or generators
- Fan speed varies intelligently with temperature, reducing noise and extending the service life of the fan
- Fault-tolerant design for fan system, taking 35% loads when any one of fans fails
- Superior hardware and software protection function, robust self-diagnostic function, and abundant event log
- Hibernation function to improve the system efficiency at light loads and extend the service life of UPS
- Powerful background software for parameters configuration and online updating
- 7 inches LCD touch screen, friendly human-machine interface
- Multi-platform communications: RS485, CAN, NET, dry contacts, SNMP and Wi-Fi communication interfaces; Real-time monitoring UPS available through the mobile App after installing Wi-Fi card
- Intelligent battery management, automatic floating / equalizing charge control, battery self-diagnosis control, SOC detection, SOH detection and charger hibernation control, extending battery lifespan



Available Options

Parallel cables, LBS cables, Battery temperature sensor, Wi-Fi card



**Power Module**

① Run indicator ② Alarm indicator ③ Fault indicator
 ④ Ready switch ⑤ Output port ⑥ Input port

Dimensions (W×D×H) (mm)	442×620×86
Weight (kg)	20.26 kg
Charging current	10 A
Capacity	10 kVA / 10 kW 15 kVA / 15 kW

Bypass Module

① Run indicator ② Alarm indicator ③ Fault indicator
 ④ Ready switch ⑤ Signal terminal ⑥ Power terminal

Dimensions (W×D×H) (mm)	442×500×130
Weight (kg)	18 kg
Capacity	80 kVA / 80 kW 120 kVA / 120 kW

Control Module

① LBS connection port/rack parallel port ② LED indicator ③ Input dry contacts ④ Output dry contacts ⑤ Battery ground fault (BTG) interface/generator (GEN) interface
 ⑥ Generator (GEN) port ⑦ Battery circuit breaker (BCB) port ⑧ EPO port ⑨ Switch state port of distribution cabinet ⑩ SPD port
 ⑪ Ambient temp port ⑫ Battery temperature compensation port ⑬ CAN port ⑭ R485 port 1 ⑮ R485 port 2 ⑯ Ethernet port
 ⑰ USB port ⑱ LCD port ⑲ Plug-in switch of system control boards ⑳ Plug-in switch of dry contacts board ㉑ Plug-in switch of monitoring board

Specifications

MODEL	EA6640 LV	EA6680 LV
Rated capacity	40kVA/40kW	80kVA/80kW
Number of power module	4	8
Rated capacity of power module	10kVA/10kW	
MODEL	EA6660 LV	EA66120 LV
Rated capacity	60kVA/60kW	120kVA/120kW
Number of power module	4	8
Rated capacity of power module	15kVA/15kW	
INPUT		
Input wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	190 / 208 / 220 Vac	
Voltage range	166 ~ 277 Vac (no downgrading), 114 ~ 166 Vac (linear downgrading between 40% ~ 100% load)	
Frequency range	40 ~ 70 Hz	
Input power factor	≥ 0.99	
THDi	≤ 3%	
Bypass input voltage range	-40% ~ +25% (settable)	
Battery voltage	± 120VDC (± 96V, ± 108V, ± 120V, ± 132V, ± 144V settable)	
Number of battery	20 pcs 12 V batteries (16, 18, 20, 22, 24 pcs settable)	
OUTPUT		
Output wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	190 / 208 / 220 Vac	
Output voltage regulation accuracy	± 1%	
Output frequency accuracy	Synchronized with utility in mains power mode; 50 Hz / 60 Hz ± 0.1% in battery mode	
Output power factor	1	
Output waveform distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)	
Crest factor	3:1	
Overload capacity	105% < load ≤ 110% for 60 min, 110% < load ≤ 125% for 10 min, 125% < load ≤ 150% for 1 min, load > 150% for 0.2 s	
SYSTEM		
Max. efficiency	96% in on-line mode, 99% in ECO mode	
Transfer time	0 ms	
Max. number of parallel connections	2	
Protections	Short-circuit, overload, over-temperature, battery low voltage, undervoltage, overvoltage, fan failure protection	
Communications	Standard configurations: RS485, CAN, NET, SNMP, dry contacts port, and EPO Optional configurations: Wi-Fi card, parallel port, LBS port, Battery temperature sensor, EMD and SMS alarms	
Display	7 inches LCD touch screen	
ENVIRONMENTAL		
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, derating 1% for each additional 100 m	
Protection level	IP 20	
Noise	≤ 65 dB (at 1 m)	
OTHERS		
Cabinet dimensions (W x D x H) (mm)	600 x 850 x 1200	600 x 850 x 2000
Cabinet weight (kg)	180	280
Module dimensions (W x D x H) (mm)	442 x 620 x 86	
Power module weight (kg)	20.26	
Color	Black	

● All specifications are subject to change without notice.