



Highlights

High power factor 1.0

High efficiency 94%

High power density

3-level technology

2 U power module

Power flexibility from 15 - 120 kW

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 (15 kVA-120 kVA) 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 15 kVA / 15 kW to 120 kVA / 120 kW 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 94% 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 3%, output THDv 2%
- 114 - 277 Vac wide input voltage range, 50 Hz/ 60 Hz grid self-adaptive
Frequency conversion available: 50 Hz input/ 60 Hz output or 60 Hz input/ 50 Hz output
- Advanced digital parallel technology, improving redundancy and reliability in system
- Flexible charger parameter and battery configuration settings, battery number 16 - 24 pieces 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, Wi-Fi and GPRS communication interfaces; Real-time monitoring UPS available through the mobile App after installing Wi-Fi card and GPRS 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, GPRS card

Certifications

IEC 61000-4-2(ESD) ; IEC61000-4-3(RS) ; IEC61000-4-4 (EFT) ; IEC61000-4-5 (SURGE)
EN62040-2 ; UL ; CE ; ISO 9001:2015 ; GB/T 19001 - 2016





Power Module



CD Run indicator @ Alarm indicator @ Fault indicator
@ Ready switch @Output port @ Input port

Weight(kg)	20.26 kg
Capacity	15kVA/15kW

Bypass Module



CD Run indicator @ Alarm indicator @ Fault indicator
@ Ready switch @ Signal terminal @ Power terminal

Weight(kg)	18 kg
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Control Module



CD LBS connection port/rack parallel port @ LEO indicator @ Input dry contacts @ Output dry contacts @ Battery ground fault (BTG) interface/ generator (GEN) interface
@ Generator (GEN) port (J) Battery circuit breaker (BCB) port ® EPO port ®Switch state port of distribution cabinet ® SPD port
G)Ambient temp port © Battery temperature compensation port ©CAN port ij}R485 port 1 @R485 port2 ® Ethernet port
@USB port @LCD port ® lug-in switch of system control boards @ Plug-in switch of dry contacts board IV Plug-in switch of monitoring board

Specifications

Capacity	60 kVA 60 kW	120 kVA 120 kW
Number of power module	4	8
Rated capacity of power module	15 kVA/ 15 kW	
Input wiring	Three-phase five-wire (3< > + 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	e! 0.99	
THDi	:53%	
Bypass input voltage range	-40% - +25% (settable)	
Battery voltage	± 120VDC (± 96V,± 108V,± 120V,± 132V,± 144V settable)	
Number of battery	20 pes 12 V batteries (16, 18, 20, 22, 24 pes settable)	
Output wiring	Three-phase five-wire (3< > + 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		
Output waveform distortion (THDv)	:5 2% (linear load); :5 5% (non-linear load)	
Crest factor	3:1	
Overload capacity	105% < load :5 110% for 60 min, 110% < load :5 125% for 10 min , 125% < load :5 150% for 1 min, load > 150% for 0.2 s	
Max. efficiency	94% 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. GPRS card, Battery temperature sensor, EMD and SMS alarms	
Display	7 inches LCD touch screen	
Operating temperature	0°C - 40°C	
Storage temperature	-25°C - +55°C (without battery)	
Relative humidity	0% - 95% (non-condensing)	
Altitude	:5 1000 m, above 1000 m, derating 1% for each additional 100 m	
Protection level	IP 20	
Noise	:5 65 dB (at 1 m)	
Cabinet dimensions (W x D x H) (mm)	600 × 850 × 1200	600 × 850 × 2000
Cabinet weight (kg)	180	280
Module dimensions (W x D x H) (mm)	442 × 620 × 86	
Power module weight (kg)	20.26	
Color	Black	

• All specifications subject to change without notice.