EA660

25 kVA ~ 75 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 25 – 75 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.

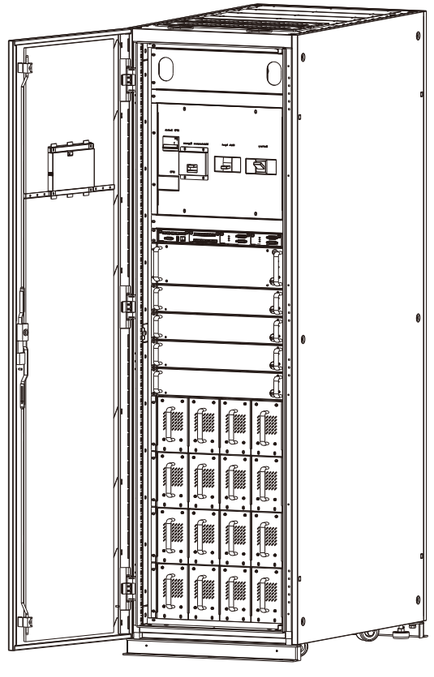
EA660 Series (25 kVA ~ 75 kVA) UPS is a high-end modular UPS with latest dual-core DSP control technology. It adopts a highly intelligent modular design which mainly contains power modules, bypass module and control module, all modules support “plug & play” to simplify UPS servicing and maintenance. The available UPS power and redundancy level can expand vertically from 25 kVA / 25 kW to 75 kVA / 75 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.

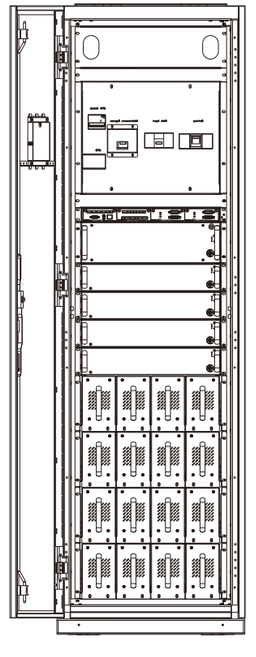
Features

- 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%
- 138 ~ 485 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 module number 8 ~ 16 pcs selectable
- 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



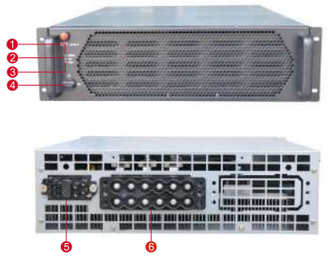


Power Module

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

Dimensions (W x D x H) (mm)	442×620×86
Weight (kg)	20 kg
Charging current	10 A
Capacity	25 kVA / 25 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	75 kVA / 75 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 RS485 port 1 ⑮ RS485 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	EA6625	EA6650	EA6675
Rated capacity	25 kVA / 25 kW	50 kVA / 50 kW	75 kVA / 75 kW
Number of power module	1	2	3
Rated capacity of power module	25 kVA / 25 kW		
INPUT			
Input wiring	Three-phase five-wire (3Φ + N + PE)		
Rated voltage	380 / 400 / 415 Vac		
Voltage range	305 ~ 485 Vac (no downgrading), 138 ~ 305 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	±240VDC		
Number of battery	2-4 sets of batteries, 8-16 battery modules, (one module is 10 PCS 12 V / 9Ah series)		
OUTPUT			
Output wiring	Three-phase five-wire (3Φ + N + PE)		
Rated voltage	380 / 400 / 415 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)	≤ 1% (linear load); ≤ 4% (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, GPRS card, Battery temperature sensor, EMD and SMS alarms		
Display	7 inches LCD touch screen		
ENVIRONMENTAL			
Operating temperature	0℃ ~ 40℃		
Storage temperature	-25℃ ~ +55℃ (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 1000 x 2000		
Cabinet weight(kg)	180		
Power module dimensions (W x D x H) (mm)	442 x 620 x 86		
Power module weight(kg)	20		
Battery module dimensions (W x D x H) (mm)	108 x 772 x 157		
Battery module weight (kg)	27		
Color	Black		

● All specifications are subject to change without notice.