

EA660 LV

25 kVA ~ 300 kVA
PF 1.0



Highlights

High power factor 1.0

High efficiency 96%

High adaptability

Power flexibility from 25-300 kW

Modular hot-swappable & Scalability

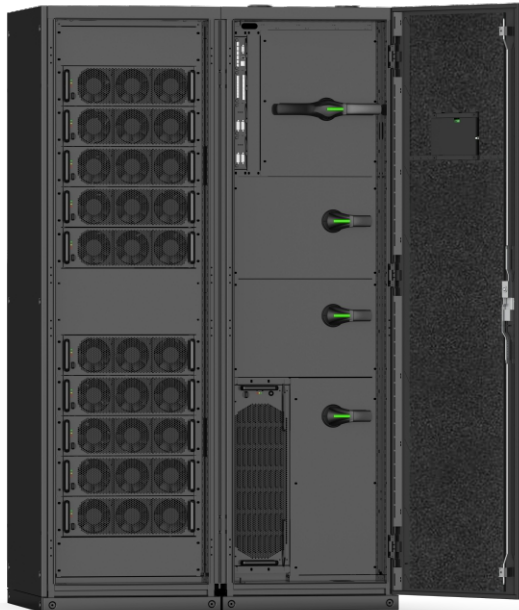
High MTBF and low MTTR

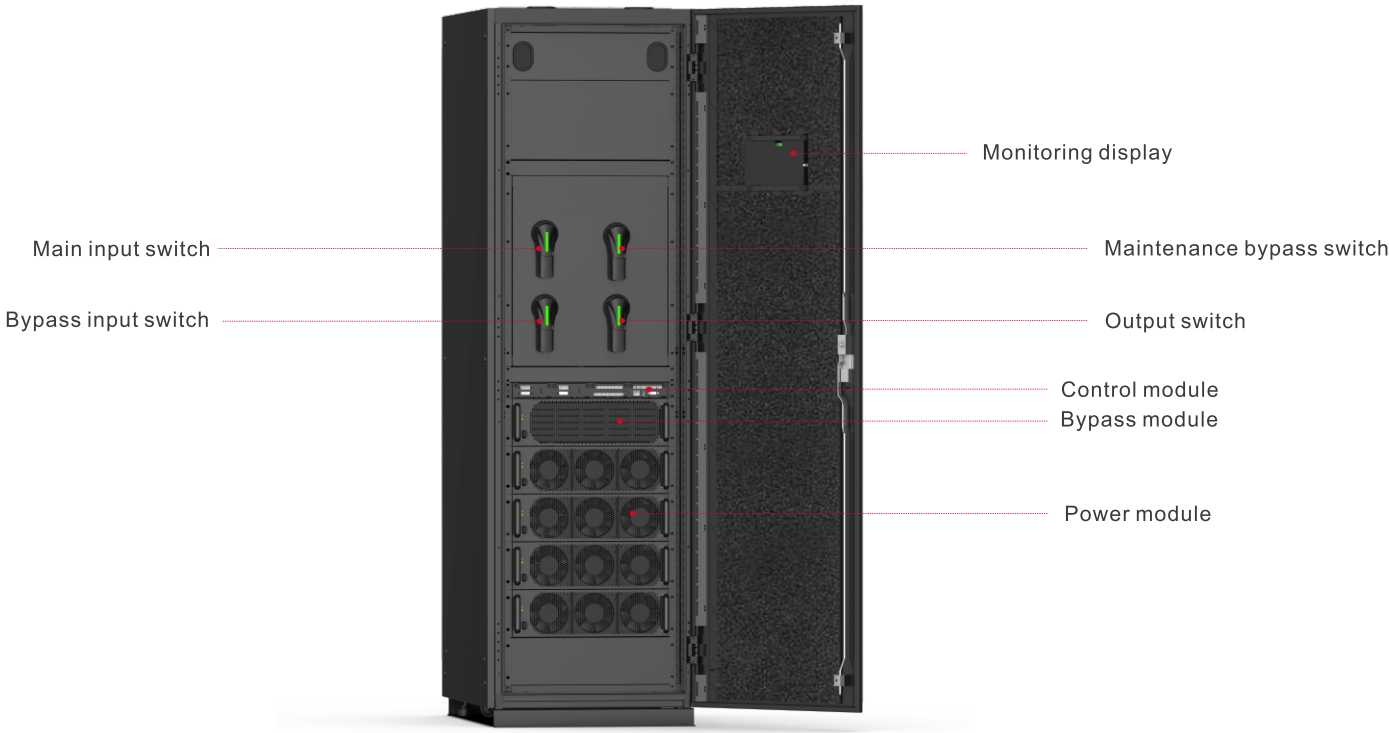
EA660 modular UPS is ideal for reliable, saving, intelligent and easy solutions. It ensures that a scalable, secure, high quality power supply is available for any critical high-density computer and IT environment applications, such as data centers and other critical loads.

EA660 modular UPS is a scalable three-phase / three-phase uninterruptible power supply system with DSP technology and provides true on-line double conversion power protection. The available UPS power and redundancy level can expand vertically from 25 to 300 kVA / 300 kW in one single power cabinet, and four power cabinets can be connected in parallel, increasing the capacity up to 1.2 MW. It features modular hot-swappable design, all modules support "plug & play", including power modules, bypass module, and control module, simplifies UPS servicing and maintenance.

Features

- Dual DSP digital control technology
- Flexible modularity and easy scalability with all hot-swappable module design
- High efficiency at low load rate: 96% at 40% rated load and 95% at 20% rated load
- High power density of 25kVA / 3U power module
- Wide input voltage range, high grid adaptability, strong load adaptability and strong overload capability
- Small footprint (250kVA system only 1.02 m² footprint)
- Inbuilt integrated PDU system, easy installation and saving investment
- Input power factor>0.99, THDi<3%, environment friendly and high-efficiency and energy-saving
- Soft-start technology improves generator matching up to 1:1.1
- Support two modes of frequency conversion: 50Hz input/60 Hz output and 60Hz input/50Hz output
- Intelligent hibernation design enables UPS to operate efficiently at low load rate to prolong service life and improve the system efficiency
- Advanced parallel expansion technology, support 4 units in parallel
- Share battery pack in parallel operation, saving user's battery cost
- Flexible charger parameter and battery configuration setting, numbers of battery 16~24 pcs selectable
- Intelligent battery management(Intelligent charge/discharge management and float charging voltage temperature compensation), extending battery lifespan
- Support battery cold start and utility self boot
- Self-aging function, easy debugging and test on site
- Fault-tolerant design for fan system: 30% load can be driven when 2 fans fail and 50% load when 1 fan fails
- Front accessible maintenance, top/bottom cable entry compatible
- Complete hardware and software protection function, robust self-diagnostic function, and abundant event log for check
- 7 inches LCD touch screen, friendly human-machine interface
- Monitoring unit with built-in SNMP, supports RS485 and dry contacts





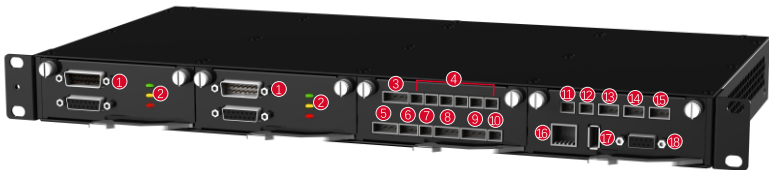
Power Module



Bypass Module



Control Module



- ① Parallel port
- ② LED indicator
- ③ DRY_IN
- ④ DRY_OUT
- ⑤ BTG port
- ⑥ BCB port
- ⑦ BCB tripping signal
- ⑧ EPO port
- ⑨ Switch state port of power distribution cabinet
- ⑪ SPD port
- ① Environmental temperature 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 screen port

Specifications

MODEL	EA66100	EA66150	EA66200	EA66250	EA66300
Rated capacity	100 kVA/100 kW	150 kVA/150 kW	200 kVA/200 kW	250 kVA/250 kW	300 kVA/300 kW
Numbers of power modules	4	6	8	10	12
Rated capacity of power module	25 kVA				
INPUT					
Input wiring	3 Ph + N + PE				
Rated voltage	190 / 208 / 220 Vac				
Voltage range	114 ~ 277 Vac (166 ~ 277 Vac without power downgrading; 114 ~ 166 Vac with linear downgrading 40%)				
Input frequency	40 ~ 70 Hz				
Power factor	≥ 0.99				
Current distortion	< 3%				
BATTERIES					
Battery voltage	± 120 Vdc (± 96, ± 108, ± 120, ± 132, ± 144 selectable)				
Number of battery	20 pcs12 V batteries (16 / 18 / 20 / 22 / 24 pcs selectable)				
OUTPUT					
Output wiring	3 Ph + N + PE				
Rated voltage	190 / 208 / 220 Vac ± 1%				
Frequency	Synchronized with utility in mains power mode: 50 Hz / 60 Hz ± 0.25% in battery mode				
Power factor	1				
Voltage distortion	≤ 1% with linear load / ≤ 3 % with non-linear load				
Crest factor	3:1				
Inverter overload capacity	105% < load ≤ 110%: transfer to bypass in 60 min 110% < load ≤ 125%: transfer to bypass in 10 min 125% < load ≤ 150%: transfer to bypass in 1 min Load > 150%: transfer to bypass in 200 ms				
Bypass overload capacity	Load ≤135% for long term; < 1000% load for 100 ms				
SYSTEM					
Efficiency	96%				
Max. number of parallel connections	4 units				
Transfer time	0 ms				
Protections	Short circuit protection, overload protection, over-temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection etc.				
Communications	RS485, dry contacts, SNMP				
Display	7 inches LCD touch screen				
OTHERS					
Operating temperature	0 ~ 40℃				
Storage temperature	-40℃ ~ +70℃				
Humidity	0 ~ 95% (non-condensing)				
Altitude	≤ 1000 m. Above 1000 m, derating 1% for each additional 100 m				
Protection level	IP 20				
Noise level at 1 m	< 65 dB	< 68 dB			
Cabinet dimensions (W x D x H) (mm)	600 × 850 × 2000		1200 × 850 × 2000		1400 × 850 × 2000
UPS module dimensions (W x D x H) (mm)	440 × 620 × 130				
Cabinet weight (kg)	230	240	410	450	600
Power module weight (kg)	32				

● All specifications are subject to change without notice.