EA660

400 kVA ~ 1200 kVA

PF 1.0



Highlights

High power factor 1.0

High efficiency 97%

High adaptability

Power flexibility from 400 - 1200 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 400 to 1200 kVA / 1200 kW in one single power cabinet, and four power cabinets can be connected in parallel, increasing the capacity up to 4800 kW. 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: 97% at 40% rated load and 96% at 20% rated load
- High power density of 100 kVA / 3U power module
- Wide input voltage range, high grid adaptability, strong load adaptability and strong overload capability
- Small footprint (600 kVA system only 0.8 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: 50 Hz input / 60 Hz output and 60 Hz input / 50 Hz 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 30 ~ 50 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: 20% 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







800-1200kVA



Power Module

Bypass Module





Control Module



 Parallel port ② LED indicator

(3) CAN port

(4) RS485 port 1

③ DRY_IN

4 DRY_OUT

⑤ BTG port

① USB port

6 BCB port

7 BCB tripping signal 8 EPO port

Switch state port of power distribution cabinet
 SPD port
 power distribution cabinet

① Environmental temperature port

Battery temperature compensation port

(5) RS485 port 2 6 Ethernet port (8) LCD screen port

Specifications

MODEL	EA66400 EA66500 EA66600	EA66800 EA661000 EA661200	
Rated capacity	400 kVA/400 kW 500 kVA/500 kW 600 kVA/600 kV	V 800 kVA/800 kW 1000 kVA/1000 kW 1200 kVA/1200 kV	
Numbers of power modules	4 5 6	8 10 12	
Rated capacity of power module	100 kVA	A / 100 kW	
INPUT			
Input wiring	3 Ph + N + PE		
Rated voltage	380 / 400 / 415 Vac		
Voltage range	138 ~ 485 Vac (324 ~ 485 Vac without power downgrading; 139 ~ 324 Vac with linear downgrading 35%)		
Input frequency	40 ~	40 ~ 70 Hz	
Power factor	≥ !	0.99	
Current distortion	<	3%	
BATTERIES			
Battery voltage	480 Vdc (360 ~ 6	600Vdc selectable)	
Number of battery	40 pcs 12 V batteries (30~50 pcs selectable)		
OUTPUT			
Output wiring	3 Ph + N + PE		
Rated voltage	380 / 400 / 415 Vac ± 1%		
Frequency	Synchronized with utility in mains power mode: 50 Hz / 60 Hz ± 0.1% in battery mode		
Power factor	1		
Voltage distortion	≤ 1% with linear load / ≤ 3 % with non-linear load		
Crest factor	3:1		
	105% < load ≤ 110%: transfer to bypass in 60 min		
Inverter overload capacity	110% < load ≤ 125%: transfer to bypass in 10 min		
mivertor eventous supusity	125% < load ≤ 150%: transfer to bypass in 1 min		
	Load > 150%: transfer to bypass in 200 ms		
Bypass overload capacity	Load ≤125% for long ter	m; >200% load for 100 ms	
SYSTEM			
Efficiency	97%		
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 7 inches LCD touch screen		
Display	/ inches LCI	D touch screen	
OTHERS	200	5500	
Operating temperature	0°C ~ 55°C		
Storage temperature	-25°C ~ 55°C		
Humidity	0 ~ 95%(non-condensing)		
Altitude	≤1000 m. Above 1000 m, derating 1% for each additional 100 m		
Protection level		2000 v 4000 v 2000	
Cabinet dimensions (W x D x H) (mm)	800 x 1000 x 2000	2000 x 1000 x 2000	
Cabinet packing dimensions (W x D x H) (mm)	900 x 1100 x 2190	2100 x 1100 x 2190	
Power module dimensions (W x D x H) (mm)	440 x 750 x 130		
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Power module package dimensions (W x D x H) (mm)	604 x 1004 x 268		
6 power modules package	1250 x 1030 x 940		
dimensions (W x D x H) (mm)			
	412	920	
dimensions (W x D x H) (mm)	412 450	920 1010	
dimensions (W x D x H) (mm) Cabinet net weight (kg)	450		
dimensions (W x D x H) (mm) Cabinet net weight (kg) Cabinet packing weight (kg)	450	1010	