

20kVA~150kVA PF 1.0



EA660 series 20kVA-150kVA plug-in UPS power supply product is a collection of EAST's latest R&D results and application experience, the new launch of a new generation of three-input three-output high-end modular UPS power supply. This product series using dual DSP full digital control technology design, effectively improves product performance and system reliability, and achieves a higher power density of integration and miniaturization. The whole machine adopts a modular design, all modules (including the power module, bypass module and control module) support hot-swappable operation, which truly realizes the advantages of high reliability, high efficiency, ease of management, and ease of maintenance.

Features & Benefits

Available Options

Standard configuration with wheels for independent installation, easy to move, can be used alone as a whole machine, can also remove the side door plate and casters pushed into the distribution cabinet to save space.





High Reliability

- Advanced DSP digital control technology, rectifier and inverter using dual DSP control
- Fan speed changes intelligently with temperature, which reduces noise and extends the life of the fan
- Any one damaged fan can still carry 35% load, with strong fault tolerance
- Adopting the three-proof paint immersion process, the UPS can work in harsh environments for a long time
- Perfect hardware and software protection, super self-diagnostic function, abundant history record
- Advanced digital parallel technology for higher reliability than stand-alone systems

High Availability

- Wide input voltage range, 50Hz/60Hz grid system self-adaptive, suitable for a variety of grid environments
- Linear derating at low voltage input reduces the number of battery discharges and extends battery life modes
- Support 30-46 batteries, flexible configuration of the number of battery cells, saving customers' investment
- Compatible with lead-acid batteries and lithium iron batteries, adapting to the needs of different types of battery configurations
- The UPS can be started directly from the battery in the absence of mains power to meet emergency requirements
- The reset delay start time can be set to reduce the impact on the power grid or generator
- Supports 50Hz input/60Hz output and 60Hz input/50Hz output frequency conversion

High Usability

- Touch color screen display, friendly human-machine interface
- Powerful background software for various parameter settings, online upgrade program and other operations
- Compact internal layout reduces footprint
- All modules support hot-swap operation
- It can be used as a plug-in box type to push into the distribution cabinet, which is easy to install and saves the user's investment
- Self-aging function, convenient for on-site debugging and testing

High Intelligence

- Support RS485, RS485/CAN (BMS), NET (with SNMP function), dry contact, WIFI card and 4G card and other
 communication interfaces to monitor the operation status of the UPS, configure WIFI card or 4G card to monitor
 the UPS in real time through the cell phone APP
- Intelligent battery management, float charge voltage temperature compensation technology, automatic equal or float charge control, charger sleep control, can improve the reliability of the charger and increase battery life
- Intelligent dormancy design ensures efficient operation of the UPS system at low load rates

High Efficiency

- With active power factor correction (PFC) technology, the input power factor is up to 0.99
- On-line efficiency is increased to 96%, saving energy and reducing operating costs
- Under good grid conditions, its working efficiency is up to 99% with ECO mode on

Plentiful Fittings

Standard RS485, RS485/CAN (BMS), NET (with SNMP function), input and output dry contacts and EPO
Optional parallel unit component, LBS component, WIFI card, 4G card, battery temperature sensor, EMD
environment detector.

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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)	21 kg	
Charging current	10 A	
Capacity	20/25/30 kVA	

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 18 kg	
Weight (kg)		
Capacity	150kVA / 150 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 (B) Generator (GEN) port (B) Battery circuit breaker (BCB) port (B) EPO port (B) Switch state port of distribution cabinet (D) SPD port 1 Ambient temp port @ Battery temperature compensation port @ CAN port @ RS485 port 1 @ RS485 port 2 @ Ethernet port ③ USB port ④ LCD port ④ Plug-in switch of system control board ② Plug-in switch of dry contacts board ② Plug-in switch of monitoring board

Specifications

MODEL	EA6640	EA6680	EA66120	
System cabinet rated capacity	40kVA/40kW	80kVA/80kW	120kVA/120kW	
Power module rated capacity		20kVA/20kW		
Number of power modules	2	4	6	
MODEL	EA6650	EA66100	EA66150	
System cabinet rated capacity	50kVA/50kW	100kVA/100kW	150kVA/150kW	
Power module rated capacity		25kVA/25kW		
Number of power modules	2	4	6	
MODEL	EA6660	EA66120	EA66150	
System cabinet rated capacity	60kVA/60kW	120kVA/120kW	150kVA/150kW	
Power module rated capacity		30kVA/30kW		
Number of power modules	2	4	5+1	
INPUT	_	·		
Input phases		Three-phase five-wire (3Φ+N+PE)		
nput rated voltage		380Vac/400Vac/415Vac		
	201 ~ 185\/aa (na darat		twoon 40% ~ 100% load)	
nput voltage variable range	304 ~ 485Vac (no derating); 138 ~ 305Vac (linear derating between 40% ~ 100% load)			
nput frequency variable range		40~70Hz		
Input power factor		≥0.99		
nput current harmonics	≤3%			
Bypass input voltage range	-60% ~ +25% (settable)			
Battery voltage	Lead-acid battery: ±240VDC (±180VDC~±276VDC settable), 12V battery 40 cells (even number 30~46 cells settable); Lithium battery: ±256VDC (±192VDC~±256VDC settable), 3.2V cell 160 single cells (120, 128, 150, 160 single cell settable)			
OUTPUT				
Output phases	Three-phase five-wire (3Φ+N+PE)			
Output rated voltage		380Vac/400Vac/415Vac		
Output voltage regulation precision	±1%			
Output frequency accuracy	Mains mode: tracking bypass input in synchronized state; battery mode: 50Hz/60Hz±0.1%			
Output power factor	1			
Output waveform distortion	≤1% (resistive load); ≤3% (non-resistive load)			
Output current crest factor	3:1			
Inverter overload capacity	105% < load≤110%, turn to bypass after 60 minutes; 110% < load≤125%, turn to bypass after 10 minutes; 125% < load≤150%, turn to bypass after 1 min, load > 150%, turn to bypass after 0.2 sec.			
SYSTEM				
Max. system efficiency	Online mode: 96%, ECO mode: 99%			
Switching time	0 ms			
Maximum parallel units	2 units			
Protection	Output short-circuit protection, output overload protection, over-temperature protection, battery low voltage protection, output over-/under-voltage protection, fan failure protection, etc.			
Communications interface	Standard configuration: RS485, RS485/CAN (BMS0, NET (with SNMP function), input and output dry contact and EPO; Optional configuration: parallel unit component, LBS component, WIFI card, 4G card, battery temperature sensor, EMD environment detector			
Display	5-inch touch color screen			
ENVIRONMENT				
Operating temperature		0~40℃		
Storage temperature	-25°C ~55°C (without battery)			
Relative humidity	0%~95% (non-condensing)			
Altitude	Altitude ≤1000m, over 1000m, load derated 1% per 100m			
IP rating	IP20			
Noise level at 1m	1P20 ≤65dB			
OTHERS		2000D		
Cabinet dimension (W×D×H) (mm)	402-052-400	402v0E2v670	40240524050	
, , , ,	483×852×490	483×852×670	483×852×850	
Cabinet net weight (kg)	65	70	88	
Module dimension (W×D×H) (mm)	442×620×86			
Module net weight (kg)	21			
Color	Black			
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Remarks:

- This product is mainly used in industrial and commercial aspects, when the application involves life support system, please contact the manufacturer's technical personnel.
 For the important power supply system, should be used in the national standard GB50174 provisions of class A or B power supply architecture, that is, dual power supply system to power the load, improve the reliability of the system power supply.
 Specifications change without notice, pictures are for reference, please prevail in kind.