EA660

50 KVA ~ 500 KVA PF 0.9





EA660 is the third generation of three phase high frequency on-line double-conversion modular UPS. Its single unit is extendable to 500 KVA / 450 KW, system capacity can be expanded to 2 MVA constructed by each module 50 KVA. All internal modules (Power module, bapass module and control module) are modularly designed and hot-swappable.

Features

- DSP digital control technology
- Pure sine wave double conversion, with strong load capacity
- Flexible modularity and easy scalability with all hot-swappable module design
- Keep high efficiency operation at low load rate: 96% at 40%
- High power density of 50 KVA / 3U power module
- 300 KVA system only 0.5 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
- Wide input voltage range, 50 Hz / 60 Hz frequency anto-sense, adapt to all kind of grid
- 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 enable UPS to operate efficiently at low load rate
- 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, battery number 30 ~ 46 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

Specifications

MODEL	EA66200	EA66300	EA66400	EA66500
Rated capacity	200KVA	300KVA	400KVA	500KVA
Numbers of power modules	4	6	8	10
Rated capacity of power module	50 KVA			
INPUT				
Input wiring	3Ph + N + PE			
Rated voltage	380 / 400 / 415 Vac			
Voltago rango	138 ~ 485 Vac (305 ~ 485 Vac without power downgrading;			
Voltage range	138 ~ 305 Vac with linear downgrading 40%)			
Input frequency	40 ~ 70 Hz			
Power factor	≥ 0.99			
Total harmonic distortion	THDi <3% (liner load); THDi <5%(non-liner load)			
BATTERIES				
Battery voltage	± 192 Vdc (±180, ± 192, ± 204, ± 216, ± 228, ± 240, ± 252, ± 264, ± 276 selectable)			
Number of battery	32 pcs 12 V batteries (supports 30 / 32 / 34 / 36 / 38 / 40 / 42 / 44 / 46 pcs)			
ОИТРИТ				
Output wiring	3Ph + N + PE			
Rated voltage	380/400/415 Vac ± 1%			
Frequency	Synchronized with utility on mains power mode:			
	$50 \text{Hz} / 60 \text{Hz} \pm 0.25\%$ in battery mode:			
Power factor	0.9			
THDi	≤ 1% (liner load)			
Crest factor	3:1			
Inverter overload capacity	105% < load ≤ 110%: transfer to bypass mode in 60 mins			
	110% < load ≤ 125%: transfer to bypass mode in 10 mins			
	125% < load ≤ 150%: transfer to bypass mode in 1 min			
	Load > 150%: transfer to bypass mode in 200 ms			
Bypass overload capacity	Load ≤135% for long term; < 1000% load for 100 ms			
SYSTEM				
Efficiency	96 %			
Max. number of parallel	4 units			
Transfer time	0 ms			
Protection	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°C			
Storage temperature	- 40°C ~ 70°C			
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		< 68 dB	< 70 dB
Cabinet dimensions (W × D × H) (mm)	600 × 850 × 2000			50 × 2000
Weight (kg)	227 ~ 350	253 ~ 430	460 ~ 690	460 ~ 750

• All specifications subject to change without notice.

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