PROSTARM
Power Redefined

PM660

50 kVA ~ 800 kVA
PF 0.9



Highlights

- Power flexibility from 50 kVA – 800 kVA
- Modular hot–swappable & Scalability
- High MTBF and low MTTR
- High efficiency
- High adaptability

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 50 to 800 kVA / 720 kW in one single power cabinet, and four power cabinets can be connected in parallel, increasing the capacity up to 3.2 M kVA. It features modular hot–swappable design, all modules support “plug & play”, including power modules, bypass module, and control module, simplifies UPS servicing and maintenance.

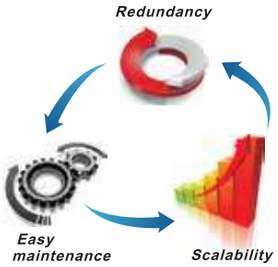
Features

- DSP digital control technology
- Pure sine wave double conversion, with strong load capacity
- 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 50 kVA / 3U power module
- High grid adaptability, strong load adaptability and strong overload capability
- Small footprint (500 kVA system only 1.02 m^2 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 auto–sense, adapt to all kinds 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 enables 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, numbers of battery 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









PM 660 (50 - 800 KVA)
MODULAR



Power Module



Bypass Module



Control Module



Specifications

MODEL	GT200	GT300	GT400	GT500	GT600	GT800
Rated capacity	200 kVA	300 kVA	400 kVA	500 kVA	600 kVA	800 kVA
Numbers of power modules	4	6	8	10	12	16
Rated capacity of power module	50 kVA					
INPUT						
Input wiring	3 Ph + N + PE					
Rated voltage	380 / 400 / 415 Vac					
Voltage range	138 ~ 485 Vac (305 ~ 485 Vac without power downgrading; 138 ~ 305 Vac with linear downgrading 40%)					
Input frequency	40 ~ 70 Hz					
Power factor	≥ 0.99					
Current distortion	< 3%					
BATTERIES						
Battery voltage	± 240 Vdc (± 180, ± 192, ± 204, ± 216, ± 228, ± 252, ± 264, ± 276 selectable)					
Number of battery	40 pcs 12 V batteries (30 / 32 / 34 / 36 / 38 / 42 / 44 / 46 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 ± 0.25% in battery mode:					
Power factor	1					
Voltage distortion	≤ 1% with liner 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	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℃					
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 × D × H) (mm)	600 × 850 × 2000	1200 × 850 × 2000			1400 × 850 × 2000	2400 × 850 × 2000
UPS module dimensions (W × D × H) (mm)	442 × 620 × 130					
Cabinet weight (kg)	233	415		465	617	1025
UPS module weight (kg)	32.5					

● All specifications subject to change without notice.