

MU660

50 kVA ~ 800 kVA
PF 1.0



Highlights

- High power factor 1.0
- High efficiency 96.5%
- High adaptability
- Power flexibility from 50 – 800 kW
- Modular hot-swappable & Scalability
- High MTBF and low MTTR

MU660 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.

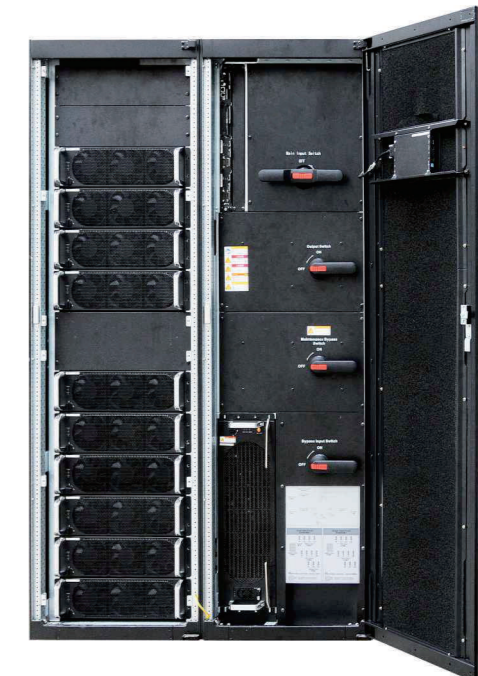
MU660 modular UPS is a scalable three-phase / three-phase uninterruptible power supply system with DSP technology and provides true on-line double conversion power protection. The available UPS power and redundancy level can expand vertically from 50 to 800 kVA / 800 kW in one single power cabinet, and four power cabinets can be connected in parallel, increasing the capacity up to 3.2 M 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.

POWER
MAXMA

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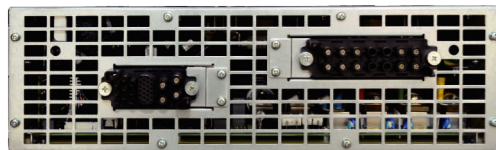
Features

- 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 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 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

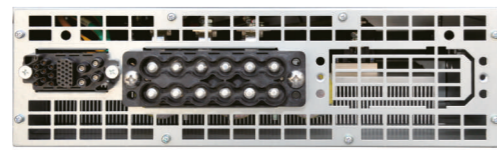




Power Module



Bypass Module



Control Module



- ① Ground terminal ② BSC port 1 ③ Parallel port 1 ④ Indicator ⑤ BSC port 2 ⑥ Parallel port 2
- ⑦ Indicator ⑧ Dry contact card ⑨ Dry contact port ⑩ MDU port ⑪ RS485 port ⑫ FE port (support SNMP)
- ⑬ COM2 Port ⑭ COM1 Port ⑮ Temperature sensor port ⑯ Optional board subrack cover

Specifications

MODEL	MU66150	MU66200	MU66400	MU66500	MU66600	MU66800
Rated capacity	150 kVA/150kW	200 kVA/200 kW	400 kVA/400 kW	500 kVA/500 kW	600 kVA/600 kW	800 kVA/800 kW
Numbers of power modules	3	4	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 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	96.5 %					
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°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 level at 1 m	< 65 dB		< 68 dB			
Cabinet dimensions (W x D x H) (mm)	600 x 850 x 2000	1200 x 850 x 2000		1400 x 850 x 2000	2400 x 850 x 2000	
UPS module dimensions (W x D x H) (mm)	442 x 620 x 130					
Cabinet weight (kg)	233	415	465	617	1025	
Power module weight (kg)	32.5					

● All specifications are subject to change without notice.