HYUNDAI

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50 kVA ~ 600 kVA PF 1.0





Highlights

High power factor 1.0

High efficiency 96.5%

High adaptability

Power flexibility from 50 - 600 kW

Modular hot-swappable & Scalability

High MTBF and low MTTR

This 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.

This 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 600 kVA / 600 kW in one single power cabinet, and four power cabinets can be connected in parallel, increasing the capacity up to 2.4 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.

MODULAR UPS





Features

- DSP digital control technology
- 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
- 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
- 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

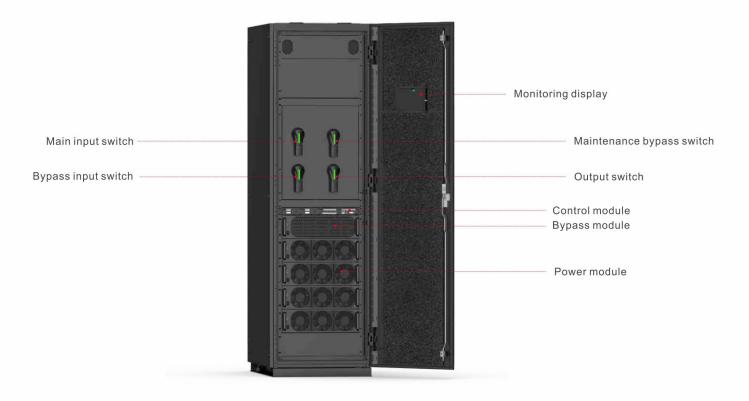




MODULAR UPS







Power Module





Bypass Module



Control Module



- 1 Parallel port
- ② LED indicator
- ③ DRY_IN
- 4 DRY_OUT
- ⑤ BTG port
- 6 BCB port

- $\ensuremath{{\mbox{\scriptsize 7}}}$ BCB tripping signal $\ensuremath{\mbox{\scriptsize 8}}$ EPO port
- Switch state port of power distribut cabinet
 - 10 SPD port
- 1 Environmental temperature port
- Battery temperature compensation port

- (3) CAN port
- (4) RS485 port 1
- 15 RS485 port 2
- 16 Ethernet port
- 17 USB port
- (8) LCD screen port

MODULAR UPS





Specifications

MODEL	HD-50RM4	HD-50RM6	HD-50RM8	HD-50RM10	HD-50RM12	
Rated capacity	200 kVA/200 kW	300 kVA/300 kW	400 kVA/400 kW	500 kVA/500 kW	600 kVA/600 kW	
Numbers of power modules	4	6	8	10	12	
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			70			
Battery voltage			± 240 Vdc			
Number of battery	40 pcs 12 V batteries					
OUTPUT			TO POO 12 V DULLOTTO			
Output wiring	1		3 Ph + N + PE			
Rated voltage	380 / 400 / 415 Vac ±1%					
	Synchronized with utility in mains power mode:					
Frequency	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					
	105% < load ≤ 110%: transfer to bypass in 60 min					
Inverter overload capacity	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					
B	Short circuit protection, overload protection, over-temperature protection, battery lo					
Protections	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 \times D \times H) (mm)	600 × 850 × 2000 1200 × 850 × 2000 1400 × 850 × 2000					
UPS module dimensions (W \times D \times H) (mm)	440 × 620 × 130					
Cabinet weight (kg)	233	242	415	465	617	
Power module weight (kg)			32			

• All specifications subject to change without notice.