

Armor

80KVA ~ 500KVA

PF 0.9 (3 : 3)



Features

- Online double-conversion with DSP control
- Latest IGBT rectifier technology, high input power factor (> 0.99) and low THDi (≤ 3%)
- High efficiency even at light loads
- Strong mixed load capacity and high overload capacity
- Compact and small footprint
- Unique ventilation design
- Batteries are connected directly to the bus, improving the impact resistance of UPS output
- Output isolation transformer using DZn0 winding makes strong capability with unbalanced loads
- Input and output are completely isolated for great security
- Simulated modular design makes maintenance easy and quick
- High MTBF (> 200,000 h)
- Low MTTR (< 0.5 h)
- Front accessible maintenance and installation against wall allowed
- Bottom and sides cable entry compatible
- Generator compatible
- Intelligent self-diagnosing function, superior failure protection, large capability of history records storage
- Optional N+X redundancy parallel up to 6 units



Technical specifications

MODEL	ARM 80	ARM 100	ARM 120	ARM 160	ARM 200	ARM 250	ARM 300	ARM 400	ARM 500
Capacity	80 kVA 72 kW	100 kVA 90 kW	120 kVA 108 kW	160 kVA 144 kW	200 kVA 180 kW	250 kVA 225 kW	300 kVA 270 kW	400 kVA 360 kW	500 kVA 450 kW
INPUT									
Input wiring	Three-phase five-wire (3Φ + N + PE)								
Rated voltage	380 V / 400 V / 415 Vac								
Voltage range	346 V ~ 456 V (full load) 304 V ~ 346 V (power derating 10%)								
Rated frequency	50 / 60 Hz								
Frequency range	50 / 60 Hz ± 5 Hz								
Power factor	≥ 0.99								
Total harmonic distortion (THDI)	≤ 3%								
Delayed start of rectifier	10 s (1 ~ 300 settable)								
Bypass voltage range	± 20% (settable)								
OUTPUT									
Output wiring	Three-phase five-wire (3Φ + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Output voltage regulation	± 1%								
Output frequency regulation	50 / 60 Hz ± 0.1% in battery mode								
Waveform	Sinusoidal								
Power factor	0.9								
Voltage distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)								
Crest factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
BATTERIES									
DC voltage	Lead acid battery: 600 Vdc Lithium iron phosphate battery: 614.4 Vdc								
Number of batteries	Lead acid battery: 12 V x 50 pcs (support 48~52 pcs) Lead acid battery: 2 V x 300 pcs (support 288~312 pcs) Lithium iron phosphate battery: 3.2 V x 192 pcs (support 192/208 pcs)								
Charging current	Charging rate (settable) × battery capacity (settable) × number of battery groups (settable)								
SYSTEM									
Efficiency	Line mode ≥ 92%, ECO mode ≥ 97%			Line mode ≥ 94%, ECO mode ≥ 98%					
Max. number of parallel connections	6								
Protections	Short-circuit, overload, over-temperature, overvoltage, undervoltage, battery low voltage and fan failure								
Communications	Standard configuration: RS232, RS485, dry contacts Optional configuration: SNMP card, temperature compensation, SMS alarms								
Display	7 inches LCD touch screen								
OTHERS									
Operating temperature	0 ~ 40°C								
Storage temperature	- 25°C ~ 55°C (without battery)								
Relative humidity	0% ~ 95% (non-condensing)								
Altitude	≤ 1000 m. Above 1000 m, derating 1% for each additional 100 m								
IP rating	IP 20								
Noise level at 1 m	< 65 dB						< 70 dB		
Dimensions (W×D×H) (mm)	800 × 800 × 1800			800 × 860 × 1700	1210 × 860 × 1950			2380 × 860 × 1950	
Packaged dimensions (WxDxH) (mm)	900 × 900 × 2050			900 × 1000 × 1950	1300 × 1000 × 2200			1300 × 1000 × 2200 (×2)	
Net weight (kg)	580	630	680	790	1135	1275	1355	2090	2300
Gross weight (kg)	630	680	730	840	1200	1340	1420	2200	2410

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.
- This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.
- For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.

