

ONLINE 3 PHASES UPS

HYUNDAI

20 kVA - 18KW
PF 0.9



Features

- DSP digital control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Cold start
- Dual input
- Wide input voltage range (190 V ~ 485 V)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Auto control fan speed when loads varies
- Auto power ON/OFF according to the load capacity set by users
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration and online updating
- Doubling the battery charging speed, 90% capacity restored in 4 hours (standard model UPS)
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Advanced battery management (ABM), automatic floating / equalizing charge control, charger dormancy control
- Configurable switching time from battery mode to mains mode when mains power is restored, reducing the impact on power grid or generator
- Effective software and hardware protection function, powerful self-diagnostic function, abundant historical records
- Standard emergency power off (EPO)
- Standard maintenance bypass
- Standard RS232/USB communication port / SNMP
- Optional RS485 / AS400 communication port and SMS alarms
- Optional N+X redundancy parallel up to 4 units
- Optional battery temperature compensation, EMD environmental sensors

Rear Panel

1. Mains Input
2. DC Input
3. Bypass Input
4. Output
5. Mains Input Breaker
6. Bypass Input Breaker
7. Maintenance Bypass
8. Fan
9. RS232
10. USB
11. EPO
12. Battery Temperature Compensation (Optional)
13. Intelligent Slot 1 (SNMP / AS400 / RS485 Optional)
14. Intelligent Slot 2 (Optional)
15. Parallel Card (optional)



Optional 5" colorful touch screen display



20KH3

Specifications

MODEL	HD-20KH3
Capacity	20 kVA / 18 kW
Technology	Online double conversion. IGBT)
INPUT	
Rated voltage	3phases (360 V / 380 V / 400 V / 415 Vac)
Voltage range	190 ~ 485 Vac
Rated frequency	50 / 60 Hz (auto-sense)
Frequency range	40 ~ 70 Hz
Power factor	≥ 0.99
Total harmonic distortion (THDI)	≤ 5%
Bypass voltage range	- 40% ~ + 15% (settable)
OUTPUT	
Voltage	3 phases/single 380/220 Vac
Frequency	50 / 60 Hz
Waveform	Pure sine wave
Crest factor	3:1
Total harmonic distortion (THDV)	≤ 2% (linear load); ≤ 5% (non-linear load)
Transfer time	Mains mode to battery mode: 0 ms; Inverter mode to bypass mode: 0 ms
Inverter overload capability	102% ~ 125%: 10 mins; 125% ~ 150%: 1 min; > 150%: 0.5 s ;
Bypass overload capability	102% ~ 125%: shut down in 20 min; 125% ~ 150%: shut down in 2 min; > 150%: shut down in 1 s
BATTERIES	
DC voltage	192 Vdc
Battery Type / Battery Pack	VRLA/Battery pack with 16*12V40Ah
Backup time at full load	≥ 13 mins
SYSTEM	
Efficiency	Online mode ≥ 94%, ECO mode > 98%
Display	LCD + LED
Alarm	Battery mode, low battery, fans fault etc.
Max. parallel numbers	4
Communications	EPO: Emergency power off RS232: UPS monitoring & system shutdown software SNMP: Simple Network monitoring protocol
Standard	EN62040-1, EN62040-2 EN61000-3-12, EN61000-3-2, EN61000-3-11 IEC61000-4-2, IEC61000-4-3 IEC61000-4-4, IEC61000-4-5 IEC61000-4-6, IEC61000-4-8 IEC61000-4-11, IEC61000-2-2
OTHERS	
Humidity/Temperature	0 ~ 95% (non-condensing) / 0 ~ 40°C
Noise level	< 65 dB (1 m)
Dimensions (W × D × H) (mm)	350 × 655 × 732
Packaged dimensions (W × D × H) (mm)	472 × 780 × 920
Net weight (kg)	61
Gross weight (kg)	71

- All specifications subject to change without notice.
- Custom-made specifications are acceptable.