

HYUNDAI UPS

1kVA – 3kVA

PF 0.9



1-3KRI



1-3KRS

Features

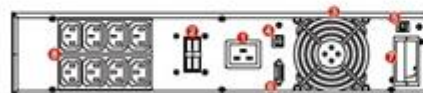
- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110V-300 Vac) and frequency range (40-70 Hz)
- Auto sensing frequency
- 50/60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Hot-swappable battery
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB/RS485/SNMP/dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, EPO function,

Rear panel

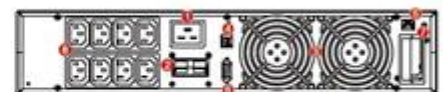
1. AC input socket
2. Battery connector (Optional)
3. Fan
4. USB (Optional)
5. EPO (Optional)
6. RS232
7. Intelligent slot
8. Output socket



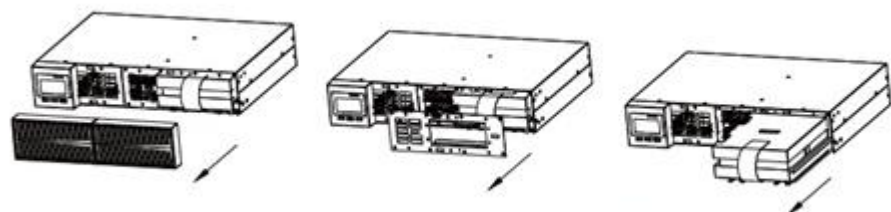
1kVA



3kVA



2kVA



Easy for maintenance, hot-swappable battery for KRi series

Specifications

MODEL	HD-1KRi	HD-1KRS	HD-2KRi	HD-2KRS	HD-3KRi	HD-3KRS
Capacity (KVA/W)	1KVA/900W		2KVA/1800W		3KVA/2700W	
INPUT						
Rated voltage	Single phase 208/220/230/240 VAC					
Voltage range	110-176 Vac (linear derating between 50% and 100% load); 176-280 Vac (no derating); 280-300 Vac (derating 50%)					
Frequency range	40-70 Hz (50/60Hz auto-sensing)					
Power factor	≥0.99					
Bypass voltage range	-25% - +15% (settable)					
THDi	≤ 3%					
OUTPUT						
Voltage	208/220/230/240 VAC (settable via LCD)					
Voltage regulation	± 1%					
Frequency	45-55Hz or 55-65Hz (synchronized range); 50/60 Hz ±0.1Hz (battery mode)					
Waveform	Pure sine wave					
Power factor	0.9					
THDv	≤2% (linear load); ≤5% (non-linear load)					
Crest factor	3:1					
Overload	105% - 125% for 1 min; 125% - 150% for 30s; >150% for 300ms					
BATTERIES						
DC voltage	24V	36V	48V	72V	72V	96V
Inbuilt battery	2*9Ah	/	4*9Ah	/	6*9Ah	/
Charging current	1A	6A	1A	6A	1A	6A
Recharge time	KRi: 90% capacity restored in 3h; KRS: Depend on the battery capacity					
SYSTEM						
Efficiency	≥ 90% (Mains mode)		≥ 91% (Mains mode)		≥ 92% (Mains mode)	
	≥ 85% (Battery mode)		≥ 86% (Battery mode)		≥ 87% (Battery mode)	
	≥ 95% (ECO mode)		≥ 96% (ECO mode)		≥ 97% (ECO mode)	
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)					
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection					
Communications	RS232 (Standard), USB/ RS485/ Dry contacts/ SNMP (optional)					
Display	LCD+LED					
Standards	EN IEC 62040-1, EN IEC 62040-2, EN IEC 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6					
OTHERS						
Operation temperature	0 – 40°C					
Storage temperature	-25 – 55°C (without batteries)					
Relative humidity	0 – 95% (non-condensing)					
Altitude	≤ 1000m, derating 1% for each additional 100m					
IP rating	IP 20					
Noise level at 1m	≤ 50dB					
Dimensions (W*D*H),mm	440*338*88	440*468*88	440*430*88	440*468*88	440*560*88	440*468*88
Net weight (kg)	10.6	7.6	18.7	9.7	26.8	10.1

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