HYUNDAI

HYUNDAI UPS

6kVA – 10kVA

PF 0.9/1.0

Features

- Advanced DPS and 3-level technology
- Output Power factor 0.9. 1.0 (optional)
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input range (110~288Vac) and frequency range (40~70Hz)
- 50/60Hz frequency auto sensing
- Two modes of frequency convension: 50Hz input/60Hz output or 60Hz input/50Hz output
- Hot swappable battery for built-in battery series
- Flexible battery configuration (settable 16-20pcs batteries)
- High charging current (optional for KRS series)
- Intelligent battery management, automatic floating/equalizing charge control, charger dormancy control, increasing battery life by 50%
- Linear derating in low voltage input reducing battery discharging time, extending the service life of battery
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equiped with self-aging function
- Compack internal layout, miniaturized the complete unot for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232/USB/RS485, SNMP and dry contacts
- Effective software and hardware protection function, self-diagnostic function, robust abundant even log for check

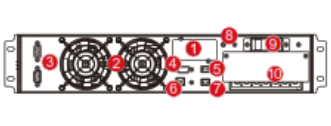
Available Options:

- RS232 and smart slot included
- Optional parallel function, SNMP card, USB, RS485

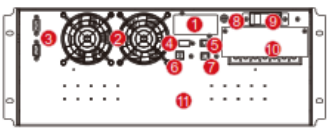
Rear panel

1. SNMP card (optional)
2. Fans
3. Parallel (optional)
4. RS232
5. EPO
6. USB (optional)
7. Temperature Compensation (optional)
8. GRD
9. Bypass breaker
10. Terminal and Cover
7. Battery pack

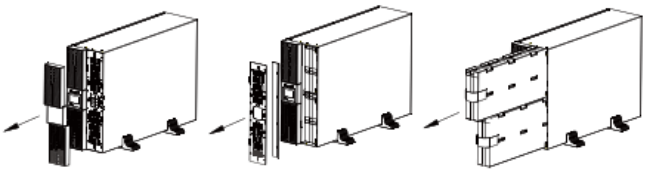
LCD can be rotated



6-10KRS



6-10KRi



Easy for maintenance, hot-swappable battery for KRi series

Rear panel

MODEL	HD-6KRi	HD-6KRS	HD-10KRi	HD-10KRS
Capacity (KVA/W)	6kVA/5400W 6kVA/6000W		10kVA/9000W 10kVA/10000W	
INPUT				
Input wiring	Single phase (1PH + N + PE)			
Rated voltage	208/220/230/240VAC			
Voltage range	110-176 Vac (linear derating between 50% and 100% load); 176-288 Vac (no derating)			
Rated frequency	50/60Hz (auto – sensing)			
Frequency range	40-70 Hz			
Power factor	≥0.99			
Bypass voltage range	-40% - +15% (settable)			
THDi	≤ 3%			
OUTPUT				
Output wiring	Single phase (L-N)			
Voltage	208 (PF0.9)/220/230/240VAC			
Voltage regulation	± 1%			
Frequency	Synchronized to bypass in mains mode; 50/60 Hz ±0.1Hz (battery mode)			
Waveform	Pure sine wave			
Power factor	0.9. 1.0 (optional)			
THDv	≤1% (linear load); ≤4% (non-linear load)			
Crest factor	3:1			
Overload	105% - 110% for 10 min; 110% - 125% for 1 min; 126% - 150% for 30s, >150% for 30ms			
BATTERIES				
DC voltage	192VDC (192-240VDC settable)			
Inbuilt battery	16*12V7Ah	/	16*12V9Ah	/
Charging current	KRi: 1A; KRS: 5A (default). 1-5A settable, 12A (optional)			
Recharge time	KRi: 90% capacity restored in 8h; KRS: Depend on the battery capacity			
SYSTEM				
Efficiency	≥94% at 100% load, max. 94.5% at 60% load; ≥98% in ECO mode			
Transfer time	0ms. <4ms (inverter mode <-> bypass mode)			
Protections	Short-circuit, overload, overtemperature, reverse phase, battery low voltage, overvoltage, undervoltage and fan failure			
Alarms	Wrong shutdown, low battery, overload, fan failure…			
Max. number of parallel connections	4			
Communications	RS232 (Standard), USB/ RS485/ Dry contacts/ SNMP (optional)			
Display	LCD+LED			
OTHERS				
Operation temperature	0 – 40^{0}C			
Storage temperature	-25 – 55^{0}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	≤ 55dB		≤ 58dB	
Dimensions (W*D*H),mm	KRi: 440*660*176; KRS: 440*580*88			
Net weight (kg)	58	12	63	14

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