ONLINE 1 PHASE UPS

HYUNDAI

Rack/Tower Type

1KVA – 3 KVA

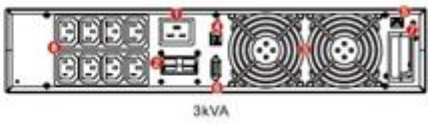
PF 0.9

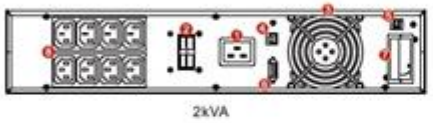
Features

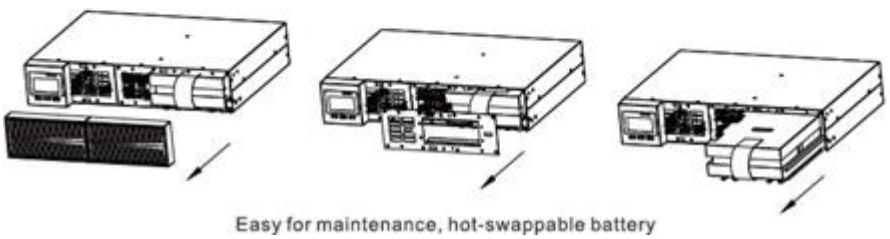
- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110V-300 Vac) and frequency range (40-70 Hz)
- Auto sensing frequency
- 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







Easy for maintenance, hot-swappable battery

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Specifications

MODEL	HD-1KRi	HD-2KRi	HD-3KRi
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	≤ 6%		
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	48V	72V
Inbuilt battery	2*9Ah	4*9Ah	6*9Ah
Charging current	1A		
Recharge time	90% capacity restored in 4h		
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 baypass 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 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1		
OTHERS			
Operation temperature	0 – 40^{0}C		
Storage temperature	-25 – 55^{0}C (without battery)		
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*430*88	440*560*88
Net weight (kg)	10.6	18.7	26.8

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

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