

RACK/TOWER TYPE

3kVA/2.7kW



Features

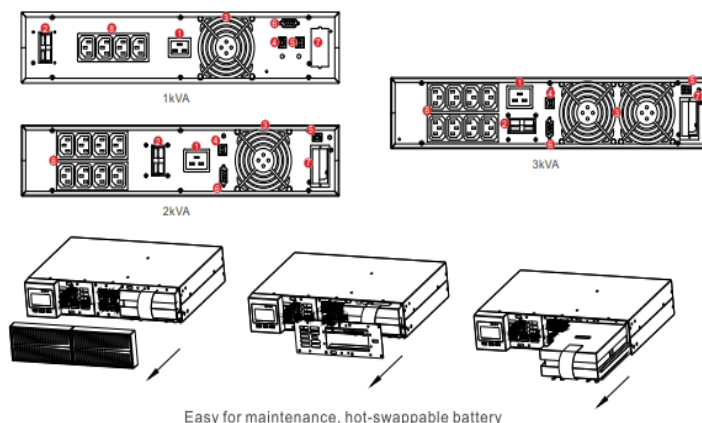
- High frequency True on-line double conversion technology help to stabilize the output voltage/Rack&Tower type, rackmount 2U design for network cabinets.
- DSP (Digital signal processor) control technology
- Compact tower design with rack tails and rack legs for stable standing
- Optimal voltage stability is achieved at a 1% fluctuation level.
- Wide input voltage range (110V ~ 300Vac) and frequency range (40 ~ 70Hz)
- 50/60Hz frequency conversion
- Cold start
- Effective software and hardware protection
- 20 levels fan run, automatically adjusts according to load, reducing noise. Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Advanced/Smart battery management: Prioritize slow charging to preserve battery life, Digitally controlled charger, automatic floating, equalizing charge control, charger dormancy control, increasing battery life.
- Linear derating in low voltage input reducing battery discharging time.
- Settable delayed start when power is restored
- Hot-swappable battery/ Display panel can be rotated 90°C
- Multi-platform communications: RS232 (standard), USB/RS485/SNMP/Dry contacts (optional).
- SNMP (NMC) -Network Management Protocol)

Available options

- 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 sockets



Easy for maintenance, hot-swappable battery

2025@version

Specifications

MODEL	HD-3KRH/HD-3KRS	
Rated Capacity	3KVA / 2.7KW	
Operation mode	Line, BAT,ECO, Bypass, CVCF	
INPUT		
Rated voltage	Single phase 208/220/230/240 Vac (Selectable)±10%	
Voltage range	110 ~ 300Vac 110 ~ 176Vac (linear derating 50% and 100% load); 176 ~ 280Vac(no derating); 280 ~ 300Vac (linear derating 50%)	
Frequency	50/60Hz (auto-sensing)	
Frequency range	40 ~ 70Hz (45 ~ 55Hz or 54~66Hz)	
Power factor	≥0.99	
Bypass voltage	-25% ~+15%(settable)	
Total harmonic distortion (THDi)	≤ 6%	
Generator compatibility	Support	
OUTPUT		
Voltage	1 phase 208/220/230/240Vac ±1%	
Frequency	50/60Hz ± 0.1 Hz (battery mode)	
Waveform	Pure sine wave	
Power factor	0.9	
Total harmonic distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)	
Crest factor	3:1	
Output socket	IEC C13*8/ Universal*1+IEC C13*3	
Load information	0-25%, 26-50%, 51-75%, 76-100%	
Overload	≤105% continuous working; 105% ~ 125% for 1 min; 125% ~ 150% for 30s; >150% for 300ms. Transfer to bypass when overload and fault then shutdown.	
BATTERIES		
Type	Hyundai VRLA 12V (Sealed lead-acid maintenance free battery)	
DC voltage	72V (KRH)	96V (KRS)
Inbuilt battery	6*9Ah	/
Backup time at 50% load	12-15mins	/
Charging current(max)	1A	6A
Battery capacity level	0-25%, 26-50%, 51-75%, 76-100%; When the capacity of battery get low or battery disconnected, the battery status icon will flash	
Max connect external battery module quantity	2	
Recharge time	KRH: restored in ≥5 hours; KRS: depend on the capacity of battery	
	Advanced battery management (auto transfer to continuous charging). Prioritize slow charging to preserve battery life.	
SYSTEMS		
Efficiency	≥ 92% (Mains mode)	
	≥ 87% (Battery mode)	
	≥ 97% (ECO mode)	

Transfer time	Mains mode to battery mode: 0ms, Inverter mode to bypass mode: <4ms (typical)	
Protections with warning	Short-circuit (crucial for preventing equipment damage, fires, and other hazards. Devices like fuses, circuit breakers, and eFuse ICs are used to quickly interrupt the circuit when a short circuit is detected). Overtemperature (Safety system that prevents a device or system from overheating by shutting down the power supply or reducing the output when the temperature exceeds a safe threshold). Surge (preventing damage, extending lifespan, ensuring reliable operation). Overload, Battery discharge protection and fan testing protection.	
Communications	RS232 (standard), UPS monitoring software via RS232 connection-auto shutdown or control PC-server before UPS stop working; USB/dry contacts/EPO (optional); SNMP(NMC) card (optional) RS485/ USB/Dry contact (optional)	
LCD+LED Display control	Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode Ups operating status via LCD color: Load, battery, input, output, bypass, mute, fan, fault...; Load status: Load capacity 0-25%, 26-50%, 51-75%, 76-100%. When UPS is overload, the load icon will flash;	
	LED warning with sound and flashing light when ups is wrong shutdown, battery mode, overload, low battery, UPS fault with warning continuously	
Function of voltage regulation	Yes	
Standards	EN IEC 62040-1, EN IEC 62040-2, EN IEC 61000-3-2, EN 61000-3-3...	
OTHERS		
Operating/Storage temperature	0°C ~ 45°C/ -25°C ~ 55°C (without batteries)	
Relative humidity	0 ~ 95% (non-condensing)	
IP rating	IP20	
Noise level at 1m	<50dB	
Dimension (W*D*H) (mm) 2U	440*560*88 (2U)	440*468*88 (2U)
Net/Gross weight (kg)	26.8/29.7	10.1/13.6

• KRH means standard model, KRS means long time model / All specifications are subject to change without notice.

