

RACKMOUNT UPS
6kVA–10kVA
PF 0.9/1.0



Features

- Advanced DPS and 3-level technology with high frequency online double conversion 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)
- Wide input range (110~288Vac) and frequency range (40~70Hz)
- Two modes of frequency conversion: 50Hz input/60Hz output or 60Hz input/50Hz output
- Hot swappable battery for built-in battery series
- VRLA (Sealed lead-acid maintenance free battery) with 3 years battery life
- High charging current (optional for KRS series)
- Intelligent/Advanced battery management (ABM), 3-mode charging method with 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
- 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
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- Manual bypass function is available for uninterrupted maintenance and service
- LCD 1 inch +LED display and control (Voltage, current, load, fan fault, frequency, BAT...), multi-functional keys operation, friendly human-machine interface. LED display warning with sound and flash when UPS overload, connect battery failure and low battery
- Display panel can be rotated 90°.
- Powerful background software for parameters configuration
- Effective software and hardware protection function, self-diagnostic function, robust abundant even log for check

Available Options:

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

Rear panel

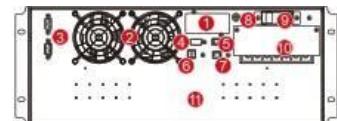
1. Fans
2. Parallel (optional)
3. RS232
4. EPO
5. USB (optional)
6. Temperature Compensation (optional)
7. GRD
8. Bypass breaker
9. Terminal and Cover
10. Battery pack



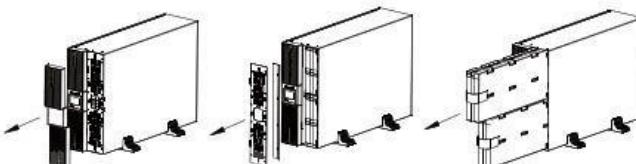
LCD can be rotated



6-10KRS



6-10KRI

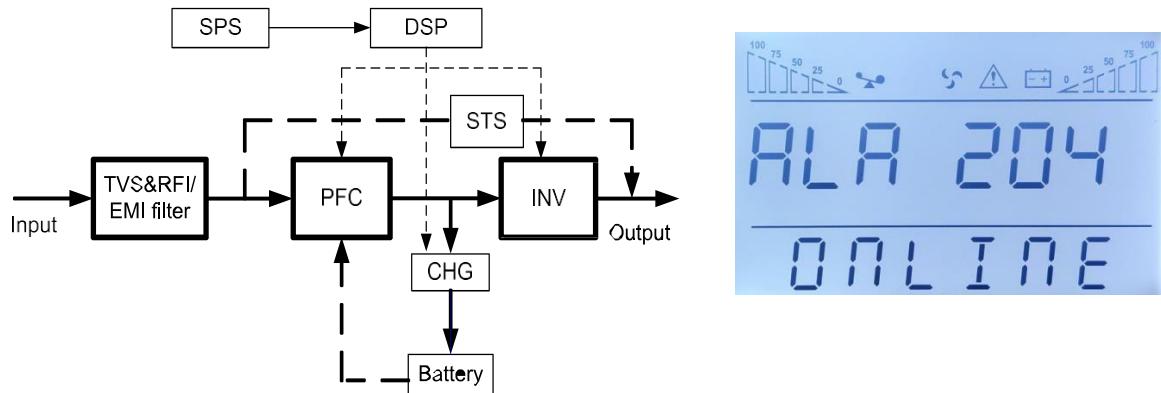


Easy for maintenance, hot-swappable battery for KRI series

SPECIFICATIONS

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		88-176 Vac (linear derating between 30% 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		≤ 5%		
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 (bypass mode)		105-110% load for 10 mins; 110-125% load for 1 min; 125-150% load for 30s		
Overload (inverter/line mode)		≤ 110% load: transfer to bypass after 60 min; ≤125% load: transfer to bypass after 1 min; 150% load: transfer to bypass after 0.5min & shutdown after 1min		
BATTERIES				
DC voltage		192VDC (192-240VDC settable), VRLA type		
Inbuilt battery	16*12V7Ah	/	16*12V9Ah	/
Back up time 50% load	≥10mins	/	≥9mins	
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		
SYSTEMS				
Efficiency		≥94% at 100% load, max. 94.5% at 60% load; ≥98% in ECO mode		
Transfer time		0ms		
Protections		Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure		
Max. No of parallel		4		
Communications		EPO, RS232 (Standard), USB/ RS485/ Dry contacts/ SNMP (optional)		
		LCD+LED		
Display and control		LCD display is divided into 3 areas: Icons, Value/settings and operation. Icons display: Load, BAT, Fan, Fault; Value/settings: Input voltage & frequency, output voltage & frequency, BAT voltage & capacity, number of BAT, load, temperature, software version, fault mode.....; Operations display: Standby mode, bypass mode, online mode, BAT mode, BATT (BAT self test) mode, Fault mode, CUCF (Frequency conversion) mode and ECO mode		
OTHERS				
Operation temperature		0 – 40°C		

Storage temperature	-25 – 55°C (without batteries)			
Relative humidity	0 – 95% (non-condensing)			
Altitude	$\leq 1000\text{m}$, derating 1% for each additional 100m			
IP rating	IP 20			
Noise level at 1m	$\leq 55\text{dB}$		$\leq 58\text{dB}$	
Dimensions (W*H*D),mm	KRI: 440*660*176 (4U); KRS: 440*580*88 (2U)			
Net weight (kg)	58	12	63	14



BATTERY RACK FOR ONLINE SINGLE PHASE

MODEL	BR16-7A	BR16-9A
BATTERY SYSTEM		
Battery type	VRLA 12VDC (sealed lead-acid maintenance free battery) with explosion-proof valve	
Typical battery recharging time	8h (to 90% of full capacity)	
Typical battery life	3 years, depend on discharging cycle and ambient temperature	
System voltage	192Vdc	
Battery quantity	16PCS (3U)	
Capacity	7AH/9AH	
PHYSICAL		
Battery Rack design	The battery cabinet is made of powder-coated iron. Safely suitable for electrical appliances	
ENVIRONMENT		
Safety	CE	
Operating environment	0°C – 40°C	
Relative humidity	0-95% (non condensing)	

* All specifications are subject to change without notice

* Custom-made specifications are acceptable