ONLINE 1 PHASE UPS

HYUNDAI

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1KVA – 3KVA

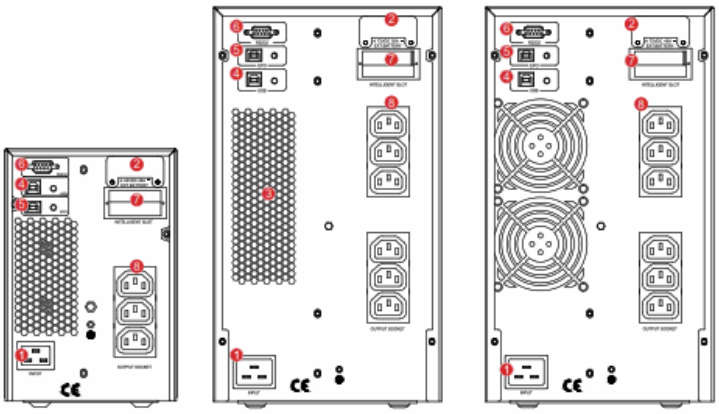
PF 0.9

Features

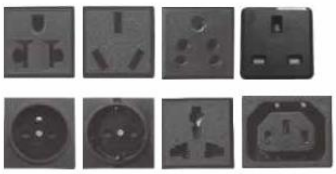
- High frequency on-line double conversion technology
- DSP (Digital signel processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110V – 300Vac) and frequency range (40 – 70Hz)
- Auto-sensing frequency
- 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 4h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- 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, and 12 A charger (for 2/3 kVA long run model only)

Rear panel

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



1KVA 2KVA 3KVA



Optional outlets

2024@version

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Specifications

MODEL	HD-1KT9	HD-1KS	HD-2KT9	HD-2KS	HD-3KT9	HD-3KS
Capacity	1 kVA / 900W		2 kVA / 1800W		3 kVA / 2700W	
INPUT						
Rated voltage	208 / 220 / 230 / 240 Vac					
Voltage range	110-176Vac (linear derating between 50% and 100% load); 176-280Vac (no derating); 280-300Vac (derating 50%)					
Frequency	40 – 70Hz (auto-sensing)					
Power factor	≥ 0.99					
Bypass voltage range	-25% - +15% (settable)					
Total harmonic distortion (THDi)	≤ 5%					
OUTPUT						
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)					
Voltage regulation	± 1%					
Frequency	45-55Hz or 55-65Hz (synchronized range); 50-60Hz ±0.1Hz (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					
Overload	105 – 125% for 1 min; 125-150% for 30s; >150% for 300ms					
BATTERIES						
DC voltage	36V		72V		96V	
Inbuilt battery	3*7Ah	/	6*7Ah	/	8*7Ah	/
Charging current (max.)	1A	6A	1A	6A	1A	6A
Recharge time	Standard model: 90% capacity restored in 4h; Long time model: depend on the capacity of battery					
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 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, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3					
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	144*317*216	144*336*216	191*419*335	191*418*335	191*419*335	191*418*335
Net weight (kg)	12.8	6	23.1	10.5	29.4	11

- *Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac*
- *KT9 means standard model, KS means long time model*
- *All specifications are subject to change without notice*
- *Custom-made specifications are acceptable*