

HYUNDAI UPS

5 kVA ~ 10kVA

Tower PF 0.9/1.0

Features

- True online double-conversion design, Advanced DSP and 3-level technology
- Output power factor upto 1.0 (Optional)
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95.5% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (110~300 Vac) and frequency range (40-70 Hz)
- 50/60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input /60 Hz output or 60 Hz input/50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- 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
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit 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/Modbus, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485/Modbus card, dry contacts

Rear panel

1. RS232
2. EPO
3. Parallel port (optional)
4. USB (Optional)
5. Temperature detection (optional)
6. Intelligent slot
7. Reserved: for manual bypass or battery breaker or outlets ect.
8. Fans
9. Bypass breaker
10. Input breaker
11. GND
12. Terminals and Cover



Specifications

5-10kVA Long run model

MODEL	HD-5KS	HD-6KS	HD-10KS
Capacity	5kVA/4.5kW 5kVA/5kW	6kVA/5.4kW 6kVA/6kW	10kVA/9kW 10kVA/10kW
INPUT			
Input wiring	Single-phase three-wire (1Φ + N + PE)		
Rated voltage	208/220/230/240Vac		
Voltage range	110-176Vac (linear derating between 50% and 100% load); 176-300Vac (no derating)		
Rated Frequency	50/60Hz (auto-sensing)		
Frequency range	40~70Hz		
Main input current	Max 60A		
Power factor	>0.99		
Bypass voltage range	-40% - +15% (settable)		
Total harmonic distortion (THDi)	≤ 5%		
OUTPUT			
Rated Voltage	Single phase, 200/220/230/240 Vac		
Voltage regulation	±1%		
Frequency	Synchronized to bypass in mains mode; 50/60Hz (±0.1% Hz in battery mode)		
Waveform	Pure sinewave		
Power factor	0.9/1.0 (Optional)		
Total harmonic distortion (THDv)	≤1% (full linear load), ≤4% (full non-linear load)		
Transfer time	0ms		
Crest factor	3:1		
Overload	105% ~ 110% for 10 mins, 110% ~ 125% for 1 min, 126% ~ 150% for 30s		
Protections	Short circuit, Overload, overtemperature, undervoltage, overvoltage, battery low voltage, fan failure		
BATTERIES			
DC voltage	192 Vdc (192-240 Vdc settable)		
Number of battery	16pcs (16-20 settable)		
Battery type	VRLA Sealed lead-acid maintenance-free battery		
Charging current	5A (default); 1-5A settable, 12A (optional)		
Recharge time	Depend on the capacity of battery		
SYSTEM			
Efficiency	Max 95.5% (Online mode), ≥98% (ECO mode)		
Max. number of parallel connections	4 (optional)		
Communications	RS232/USB, intelligent slot (standard) SNMP card, Dry contact, Modbus card (optional)		
Display	LCD + LED		
	Display Load, Battery, capacity, input-output, operating modes, fault....		
OTHERS			
Operation temperature	0-40°C		
Storage temperature	-25-55°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	≤55dB		≤58dB
Dimensions (W*D*H) mm	191*465*350		191*495*350
Net weight (kg)	14.5		16.5

• All specifications are subject to change without notice