

HYUNDAI ONLINE UPS

1 PHASE 5 KVA TOWER

DATASHEET

MODEL	HD-5KS
Capacity	5000VA/4500W
	5000VA/5000W
Technology	True online double-conversion design, Advanced DSP and 3-level technology. Industrial smart tower design, meeting higher corresponding load capacity
INPUT	
Rated Voltage	Single phase 208/220/230/240VAC
Voltage range	110 ~ 300Vac; 110-176Vac (linear derating between 50% and 100% load); 176-300Vac (no derating)
Frequency range	40~70 Hz; 50-60Hz(auto-sensing)
Input Technology	Dual-input design, supporting independent bypass
Power factor	> 0.99
Cold start	Yes
Bypass voltage range	-40% - +15% (settable)
Main input current	Max 60A
Total harmonic distortion (THDi)	≤ 5%
OUTPUT	
Waveform	Pure sine wave
Voltage	200/220/230/240 Vac ± 1% (Settable via LCD)
Frequency range	Synchronized to bypass in mains mode; 50/60Hz (±0.1% Hz in battery mode)
Power factor	0.9/ 1.0 (optional)
Crest factor	3:1
THDv	≤1% (full linear load) ≤4% (full non-linear load)
Transfer time	0ms(Mains mode to battery mode)
Outlet	Terminal
Inverter overload capability	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, fault...
Efficiency	Line mode	Max 95.5% (Online mode)
	ECO mode	≥98%
BATTERIES		
Battery type		VRLA Sealed lead-acid maintenance-free battery
Extenal battery		12VDC*16pcs (16-20 settable)
DC voltage		192 Vdc (192-240 Vdc settable)
Backup time		Depend on the capacity of battery
Ability of extension		16 Cabinet Battery (optional)
Recharge time		90% capacity restored in 5 hours
Charging current(Max.)		5A (default); 1-5A settable; 12A (optional)
Intelligent battery management		Automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
SYSTEMS and COMMUNICATIONS		
Display & control		LED+LCD
Display Description		Display Load, Battery, capacity, input-output, operating modes, fault..
Overload protection		Over-temp protection; Fan testing protection; Overload protection; Output short circuit protection; Battery discharge protection
Alarms		By sound and flashing alarm: Battery mode, battery voltage low, fans fault etc..
Control		By micro processor
Communincation	RS232 (with upsSmartView management software)/ USB, Remote monitoring and control with software. Auto shutdown or control PC/server before UPS stops working. RS485/Modbus, SNMP and dry contacts communication interfaces.	
	EPO(Emergency Power Off)/ Intelligent slot(SNMP Network Management Protocol)	
	Optional: USB/ SNMP card(NMC Card)/ CMC (Centralized monitoring card)/ RS485 based Modbus protocol monitoring/AS400 Card/ Dry contact	
Max. number of parallel connections		4 (optional) Advanced digital parallel technology
Footprint		Compact internal layout, miniaturized the complete unit for small footprint

ENVIRONMENT	
Humidity	0 ~ 95 % RH (non-condensing)
Temperature	0°C ~ 40°C; Storage temperature: -25°C ~ 55°C (exclude batteries)
Altitude	≤ 1000m, derating 1% for each addition 100m
IP level	IP20
Noise	≤55dB at 1m
PHYSICAL	
Dimensions (mm)	191*465*350
Net weight (kg)	14.5
Accessories	User manual/ input power cord, RS232 cable

