ONLINE 1 PHASE UPS

HYUNDAI

















Key features

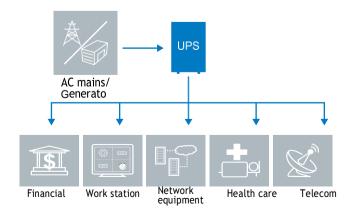
- True online double-conversion design with high adaptability to harsh mains conditions
- PF=0.9/1.0
- DSP design enables precise and reliable control
- · High efficiency results in energy saving
- Supports energy-saving ECO mode
- · Compact size requiring small installation space
- Built-in OVCD(short-circuit) protection, fan lock detection, over temperature detection, overload warning to enhance the product reliability
- RS232 with UPS managements program via RS232 computer connection protocol
- Intelligent communication slot enables remote monitoring
- Programmable LCD display for quick UPS parameters configuration







Typical application



ONLINE 1 PHASE UPS





Serial 6KVA~10KVA

Product specifications

Model name		HD-6KTH	HD-6KTS	HD-10KTH	HD-10KTS		
Power rating	kVA/kW or VA/Watt	6kVA/5.4kW		10kVA/9kW			
	KVA/KW OI VA/Wall	6kVA	6kVA/6kW		10kVA/10kW		
Efficiency	Double coversion mode	96%					
	ECO mode	98%					
Input performance	Phases	Single phase with ground					
	Rated voltage	208/220/230/240VAC(selectable)±10%					
	Voltage range	110~300Vac					
	Rated frequency	50Hz/60Hz(Auto-sensing)					
	Frequency range	40Hz-70Hz(50Hz: 44Hz-56Hz); 54Hz-66Hz(@ load>60%)					
	Max Current voltage	31.2A	38.7A	49.9A	57.6A		
	PF	>0.99(100% load)					
	THDi	<3% full load					
	Bypass voltage range	-40%~+15%(settable)					
	Generator compatibility	Yes					
Input connection	Wiring/socket	Hardware terminnal connection(5 poles, IPL, IPN, PE, OPL, OPN)					
Output performance	Rated voltage	Single phase 208/220/230/240VAC(auto-sensing or settable)					
	Voltage accuracy	±1%					
	Rated frequency	50Hz/60Hz					
	Frequency range	Synchronized to bypass in mains mode; ±0.1% in battery mode					
	PF	0.9/1.0					
	THDv	<1% linear load					
		<4% non linear load					
	Transfer time	0ms					
	Crest Ratio	max 3:1					
	Waveform	Pure sinewave					
	Overload(line mode)	100% <load≤105% continuous.="">105%< load ≤115% load transfer to bypass mode after 10 minutes. >115<load≤130% %="" 5="" after="" bypass="" load="" minutes.="" mode="" to="" transfer="">130<load≤150% %="" 30s.<="" after="" bypass="" load="" mode="" td="" to="" transfer=""></load≤150%></load≤130%></load≤105%>					
	Overload(Bypass mode)	100% <load≤105% alarm.<br="" no="">>105%< load ≤115% continous working and alarm. >115<load≤135% %="" 30s.<="" after="" shutdown="" td="" ups=""></load≤135%></load≤105%>					
Output connection	Wiring/socket	Hardy	ware terminnal connection	(5 poles, IPL, IPN, PE, OP	L, OPN)		
Battery	Туре	VRLA 12VDC Hyundai battery-synchronized with the UPS brand					
	Турс	(Sealed lead-acid maintenance free battery); ≥5years battery life			battery life		
	Voltage	192VDC(192~240VDC adjustable)					
	Capacity(AH)	16*12V/9Ah; 16~20pcs adjustable(KTH model)					
	Backup time at full load with PF0.8(inbuilt model)	6~8 mins ≥5 mins					
Max external BAT module		Max 6 b	Max 6 battery modules can be expanded to increase the backup time				
Charger	Maximum charging current	1.4A(0-4A adjustalbe) 12A(0-12A adjustalbe) 2A(0-4A adjustalbe) 12A(0-12A adjustalbe)					
	Recharging time	3h to 90%(KTH model)					
	Charging technology	Smart charging for automatic battery test, low battery warning, deep discharge					

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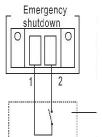


Model name		HD-6KTH	HD-6KTS	HD-10KTH	HD-10KTS		
Other working mode	Parallel capabilites	Optional (up to 3)					
	Setting Energy saving timer	Disable 1~10mins					
	Maintenance bypass switch	Yes					
Certification	Certification/standard	CE,IEC/EN 62040					
Operating	Operating modes	Online, battery, bypass, manual bypass, high efficiency					
	Display control	LCD graphical with five-button, color panel, controlled by (DSP) Digital signal processors control with measurements and settings: Load(W/VA)/Battery(time-minutes)/Input/Output/Frequency/Bypass/Operations mode/Events/ Fault Parallel system BAT status (optional) LED indicator status with four- flash mode and buzzer: BAT mode/ Online mode/ Bypass mode/ Fault. When UPS wrong shutdown, low battery, low voltage, overload, fan fault Parallel cable loss (optional)					
	Protections	Short-circuit, overload, overtemp, over-voltage, under-voltage, low battery, fan failure					
	Human-machine interface (HMI)	Standard for: RS232(DB9), EPO, Intelligent slot; RS232 with UPS managements program via RS232 computer connection protocol. Remote monitoring and control software via the RS232(Winpower software). Auto shutdown or control PC/server before UPS stops working; EPO: Emergency power-off; Intelligent slot: Network card connection slot as NMC long card or SNMP card; Optional for: SNMP- Intelligent card(Monitoring & system shutdown software) allow the UPS to communicate with different types of devices in variety of networking environments; RS485(Modbus card provides connection to Modbus protocol with standard RS485 signal); Relay card;					
	Operating temperature	0-40°C(Full load no derating)					
Environment	Relative Humidity	0-95%(non-condensing)					
	Operating Altitude	0~3000m (the load derating 1% every up 100m @1000~3000m)					
	Acoustic Noise	<50dBA(1m) @ typical load with battery fully charged		<55dBA(1m) @ typical load with battery fully charged			
Physical performance	Dimension(W*D*H)mm	220*492*589	220*492*348	220*492*589	220*492*348		
	Net Weight(KG)	53	14	61	16		
	IP protection level	IP20					
Accessory	RS232 cable	Yes					
	Manual	Yes, English and Vietnamese					

^{***} KTH means standard model. KTS means long time model

EPO

The EPO (Emergency Power Off) is located in the back panel of the UPS and is a green terminal. The EPO can turn off the UPS power supply and turn off the UPS in the emergency condition.



The Specific use:

EPO interface is in the connection state UPS working normally.

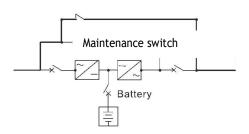
EPO interface is disconnected, UPS perform emergency shutdown and display 23 alarm.

User Switch

Maintenance switches

Maintenance switch to achieve UPS online maintenance.

The main part of the UPS is charged, whether it is electricity, battery, bypass mode, and the UPS and electricity can be isolated by maintenance switch, and the safety of on-line repair of the UPS is guaranteed.



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