

HYUNDAI ONLINE UPS

1 PHASE 2KVA TOWER (INTERNAL/EXTERNAL BATTERY)

DATASHEET

MODEL		HD-2KTH
Capacity		2kVA/1.8kW
Technology		Online double conversion, Tower type
INPUT		
Rated Voltage		Single phase 208/220/230/240VAC (Selectable)
Voltage range		110 ~ 300Vac
Frequency range		40~70 Hz; 50-60Hz (selectable)
		45~55 Hz/54~66 Hz
Power factor		≥ 0.99
Cold start		Yes
Bypass voltage range		187~265V(120~275V Max)
OUTPUT		
Waveform		Pure sinewave
Voltage		208/220/230/240 Vac ± 1% (Settable via LCD); 230V (default)
Frequency range		50/60 (synchronized range with mains input); ±1% in Battery Mode
Power factor		0.9
Crest factor		3:1
THDv		<2% @ linear load; <5% @ non-linear load
Battery Mode <-> Inverter Mode		0ms
Inverter Mode <-> Bypass Mode		<4ms
Inverter overload capability		100 ~105% continuous; 60Sec@>105 ~130% Rated Load; 5Sec@>130 ~150% Rated Load
Efficiency	Line mode	≥93%
	ECO mode	≥98%
BATTERIES		
Battery type		VRLA, Sealed lead-acid, maintenance free battery; Battery life ≥3 years.
Inbuilt battery		12V/9Ah * 4 pieces

DC voltage	48VDC
Backup time	≥7mins at full load PF0.8 (2kVA/1.6kW)
	5-6 mins at full load (2kVA/1.8kW)
Ability of extension	4 Cabinet Battery 4*9AH (optional)
Recharge time	5 hours (Depend on the capacity of external batteries for long backup time)
Charging current(Max.)	1A (Max 4A)
External battery	Ability to increase backup time upto 12V80AH
Battery test	Automatic battery test/ quick test/ battery capacity test
Battery informations	Indicates BAT level by 0-24%;25-49%;50-74%; and 75-100% in BAT mode and charging status in line mode
SYSTEMS and COMMUNICATIONS	
LCD display	(DSP)Digital signal processors control with display: Load/Battery/Input/Output/Bypass/Operations mode/Frequency/Fault
Protection	Short-circuit, overload, over temp, BAT low, overvoltage, undervoltage and fan fault....
LED display	Audible alarm & flash (AC/DC input under abnormal, overload condition and inverter problems)
	4 button and 4 LED display panel in Bypass mode, normal mode, battery mode, fault mode
Load information	Indicates Load level by 0-20%;21-40%;41-60%; 61-80%; and 81-100%
Control	By micro processor
Communication	RS232 with UPS managements program via RS232 computer connection protocol. Remote monitoring and control with software. Auto shutdown or control PC/server before UPS stops working
	Optional: USB/ EPO(Emergency Power Off)/ SNMP card(NMC Card)/CMC(Centralized monitoring card)/ RS485 based Modbus protocol monitoring/AS400 Card
ENVIRONMENT	
Humidity	0 ~ 95 % RH (non-condensing)
Temperature	0°C ~ 40°C
Altitude	≤ 1000m, derating 1% for each addition 100m
IP level	IP20
Noise	<50dB
PHYSICAL	

Dimensions (mm) W × D × H	190×323×368
Net weight (kg)	18.2
Accessories	User manual/ input power cord, RS232 cable

Rear panel features *(can change the position of the connection port or the type of socket)*

