

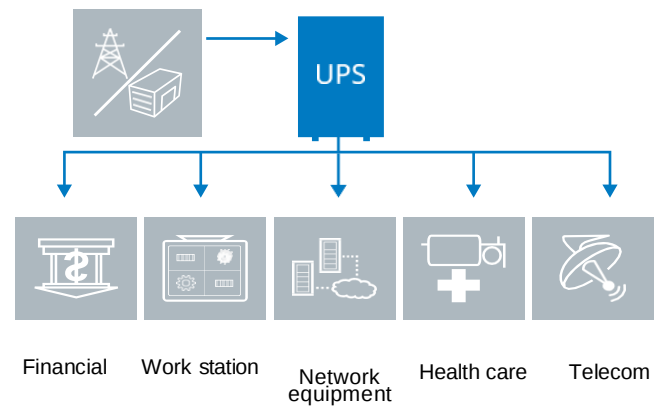
1 phase online
Tower case 1KVA~3KVA



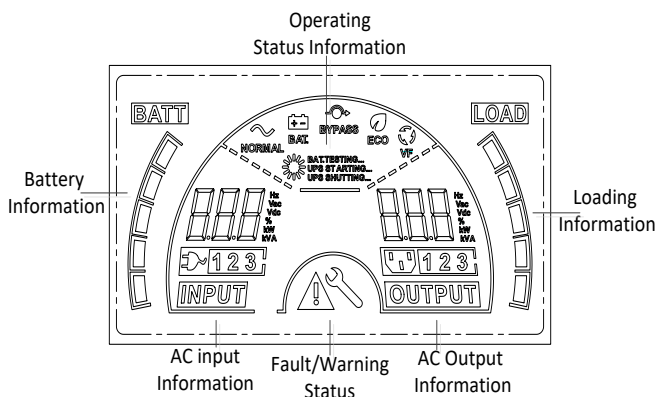
Key features

- True online double-conversion design with high adaptability to harsh mains conditions
- 1K/2K/3K various offer.
- Various battery configuration: 1K 24V/36V, 2K 48VDC/72VDC, 3K 72VDC.
- 0.9/ output power factor
- Optional EBM for flexible backup time configuration.
- Compact size requiring small installation space
- Programmable LCD display for quick UPS parameters configuration.
- Various communication for easy management: RS232, EPO, mini slot.

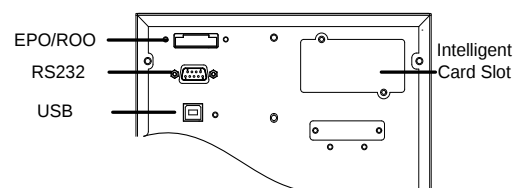
Typical application



Display panel



Communication Cable

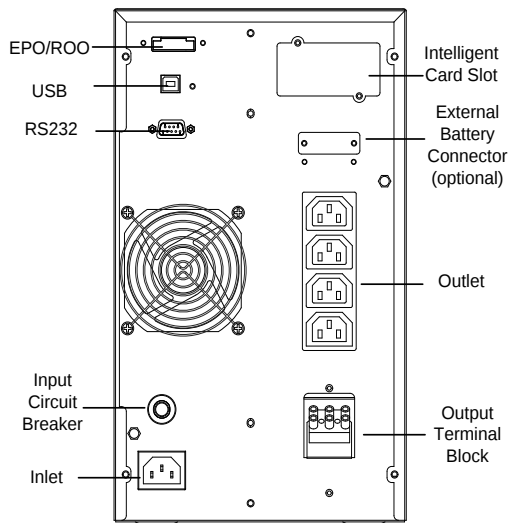


Product specification

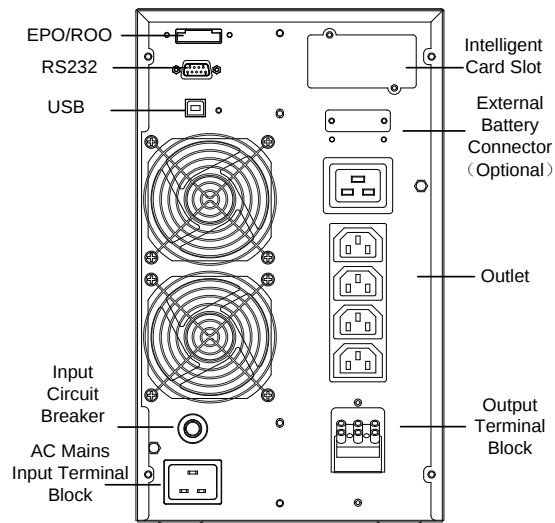
MODEL		Online 1 phase tower UPS 1KVA~3KVA					
		HD-1KTH/1KTS		HD-2KTH/2KTS		HD-3KTH/3KTS	
GENERAL	Capacity	1000VA/900W		2000VA/1800W		3000VA/2700W	
	Technology	True online high frequency double-conversion					
	Operation mode	Normal, BAT, ECO, Bypass, CVCF					
INPUT	Rated Voltage	208/220/230/240VAC(selectable)					
	Input Voltage Range	110 ~ 300 VAC					
	Frequency	50/60Hz(Selectable); 40-70Hz					
	Frequency Range	45-55 Hz/54-66 Hz					
	Power factor	≥0.99					
	Input Wiring	Single Phase with Ground					
	Bypass voltage range	187-265V(120-275V Max)					
OUTPUT	Output Power Factor	0.9					
	Nominal Output Voltage	Single phase 208/220/230/240VAC, 230V default					
	Voltage Regulation	±1%					
	Rated output current	4.5A		9.1A		13A	
	Frequency Range	50/60Hz; ±1% in Battery Mode					
	Overload	100 ~105% continuous; 60Sec@>105 ~130% Rated Load; 5Sec@>130 ~150% Rated Load					
	Short circuit current	15A/60ms		30A/60ms		45A/60ms	
	Voltage Distortion (THDv)	<2% @ linear load; <5% @ non-linear load					
	Output Waveform	Pure Sine Wave					
	Outlet Socket	4*IEC C13 or 2Universal		4*IEC C13 +Ter			
	Protections	Short-circuit, overload, over temp, BAT low, overvoltage, undervoltage and fan fault..					
EFFICIENCY	Inverter Mode	89%		≥90%			
	AC mode	90%		≥93%			
	ECO mode	95		≥98%			
BATTERIES	Battery Type	VRLA 12V, Sealed Lead-acid, maintenance free battery. Battery life ≥3 years					
	Number of Internal Battery	2	N/A	4	N/A	6	N/A
	Rated Battery Voltage	24VDC	36VDC	48VDC	72VDC		
	Rated Battery current	45A/ 30A		45A			
	Backup time at full load	5-6mins				3-5mins	
	Charging Current	1A(max 4A)					
	Recharging time (90%)	5 hours(Depend on the capacity of external batteries for long backup time)					
	Battery informations	Indicates BAT level by 0-24%;25-49%;50-74%; and 75-100% in BAT mode and charging status in line mode					
TRANSFER TIME	Battery Mode <-> Inverter Mode	0ms					
	Inverter Mode <-> Bypass Mode	<4ms					
DISPLAY CONTROL	LCD	(DSP)Digital signal processors control with display: Load/Battery/Input/Output/Bypass/Operations mode/Frequency/Fault					
	LED	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%					
DIMENSION	W x H x D (mm)	144×220×328		190×323×368			
	Weight (Kg)	8.4	3.5	18.2	10.5	23.3	12

ENVIRONMENT	Operating Temperature	0-40 °C	0-40 °C	0-40 °C up to 50 degrees C when UPS performance degrades
	Altitude	<2000m, derating 1% for each additional 100m		
	Humidity	0% - 95%RH (non-condensing)		
	Noise Level	<50dB		
INTERFACE	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		
		Intelligent slot(SNMP Network Management Protocol)		
	Optional	USB/ EPO(Emergency Power Off)/ SNMP card(NMC Card)/CMC(Centralized monitoring card)/ RS485 based Modbus protocol monitoring/AS400 Card		
	Protection level	IP20		
ACCESSORIES		User manual, RS232 cable		

REAR VIEW

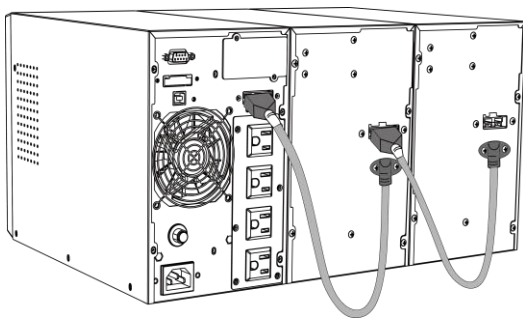


1-2KVA



3KVA

External Battery Module



Internal circuit configuration

