

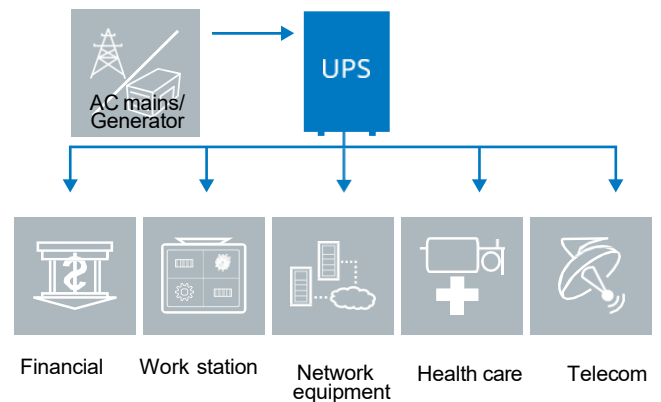
## 1 phase online Tower case 2KVA



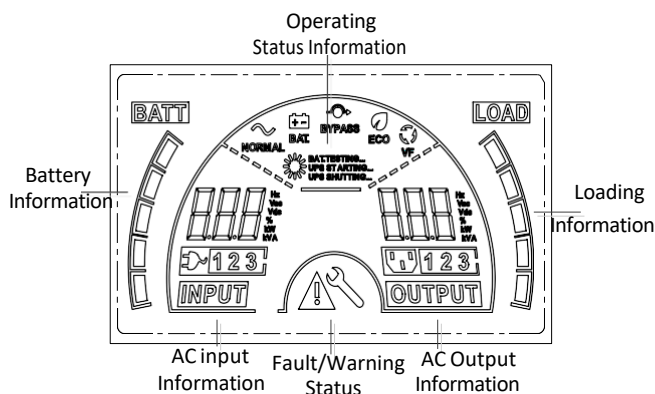
## Key features

- True online double-conversion design with high adaptability to harsh mains conditions
- 2K various offer.
- Various battery configuration for Internal battery model: 48VDC/ 72VDC
- Various battery configuration for External battery model to extend backup time up
- 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.

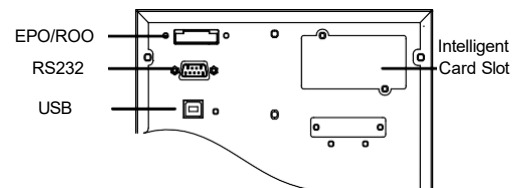
## Typical application



## Display panel



## Communication Cable



**Product specification**

| MODEL           |                                | Online 1 phase tower UPS 2KVA                                                                                                                                                           |
|-----------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                                | HD-2KT9                                                                                                                                                                                 |
| GENERAL         | Capacity                       | 2000VA/1800W                                                                                                                                                                            |
|                 | 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           | 9.1A                                                                                                                                                                                    |
|                 | 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          | 30A/60ms                                                                                                                                                                                |
|                 | Voltage Distortion (THDv)      | <2% @ linear load; <5% @ non-linear load                                                                                                                                                |
|                 | Output Waveform                | Pure Sine Wave                                                                                                                                                                          |
|                 | Protections                    | Short-circuit, overload, over temp, BAT low, overvoltage, undervoltage and fan fault..                                                                                                  |
| EFFICIENCY      | Inverter Mode                  | ≥90%                                                                                                                                                                                    |
|                 | AC mode                        | ≥93%                                                                                                                                                                                    |
|                 | ECO mode                       | ≥98%                                                                                                                                                                                    |
| BATTERIES       | Battery Type                   | VRLA 12V, Sealed Lead-acid, maintenance free battery. Battery life ≥3 years                                                                                                             |
|                 | Number of Internal Battery     | 4                                                                                                                                                                                       |
|                 | Rated Battery Voltage          | 48VDC                                                                                                                                                                                   |
|                 | Rated Battery current          | 45A                                                                                                                                                                                     |
|                 | Backup time at full load       | ≥7mins                                                                                                                                                                                  |
|                 | Charging Current               | 1A                                                                                                                                                                                      |
|                 | 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:<br>Load/Battery/Input/Output/Bypass/Operations mode/Frequency/Fault                                                                |
|                 | LED                            | Audible alarm & flash ( AC/DC input under abnormal, overload condition and inverter problems)<br>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)                 | 190×323×368                                                                                                                                                                             |
|                 | Weight (Kg)                    | 18.2                                                                                                                                                                                    |

|             |                       |                                                                                                                                                                                           |
|-------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENVIRONMENT | Operating Temperature | 0-40 °C                                                                                                                                                                                   |
|             | 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.<br>Remote monitoring and control with software.<br>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

