Tower 1~3K Online UPS
Datasheet（220V PF0.9 IEC62040）

Feature：

Zero Transfer time

True Double Conversion Online UPS, Provide most comprehensive protect mission critical equipment from wide range power quality issues

DSP Digital Control Based

Advance DSP base digital control bring high performance of high input Power factor, low distortion , supply the load with perfect sine wave AC power supply

Ultra Wide Input Mains range

Strong compatible with ultra with electric environment, stay well with ultra wide range mains of 90V~300V, 40~70Hz ,dramatically reduce battery discharge , prolong battery life

Best Loading Capability

Up to 0.9 Output Power Factor, 50/60 Hz Automatically adapting, selectable voltage , perfectly match all kind of application

Genset Compatible

Capable of work with wide range of Genset, isolate fluctuation and noise from Genset , provide stable and clean power supply to the user equipment.

High Input power factor

Thanks to digital controlled   PFC Technology, >0.99 input power factor, effectively avoid power pollution , save energy expense for customer

Reliable design

Made with strong Glass fiber base (FR4) double side PCB, company with large span component, greatly improve reliability in harsh environment, Well designed ventilation and conformal coating , avoid dust accumulation ,improve resistant to corrosion

Open to customization

Based on powerful controller and open architecture, the product is able to be customized to match need of integration of automatic system or intelligent supervisory system
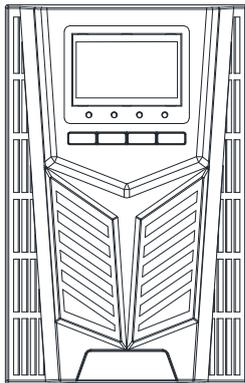
Specification：

Model	1K	1KS	2K	2KS	3K	3KS
Capacity	VA/W		1kVA/900W		2kVA/1.8kW		3kVA/2.7kW

Topology		Double Conversion Online UPS
Phase		Single Phase Input Single Phase Output

Mains Input	Wiring	L/N+PE
	Rated Voltage	208/220/230/240VAC
	Voltage Range	90~300VAC
	Frequency Range	40Hz~70Hz
	Input Power Factor	≥0.99

AC Output	Wiring	L/N+PE
	Output Voltage	208/220/230/240VAC
	Voltage Regulation	±1%
	Output Frequency	50/60±4Hz(Sync Mode) 50/60Hz±0.1(Free Run)
	Waveform	Pure Sine Wave
	Distortion (THDV%)	<2%(Linear Load) <7%(None-Linear Load)
	Over load capability	1Min@105%~125%Rated Load 30Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load

		1K	1KS	2K	2KS	3K	3KS
Efficiency	Line mode	88%		89%		90%	
	Battery Mode	86%		87%		88%	

		1K	1KS	2K	2KS	3K	3KS
Battery & Charge	Rated Battery Voltage [①]	24VDC Internal	24/36VDC External	48VDC Internal	72V/48VDC External	72VDC Internal	72VDC External
	Battery Capacity	7AHx2pcs	External Battery Depends	7AHx4pcs	External Battery Depends	7AHx6pcs	External Battery Depends
	Backup Time	>6mins @ Half Load		>6mins @ Half Load		>6mins @ Half Load	
	Charging Current	Standard Model with Internal Battery:1A Long Backup Time Model :4A					
	Optional Configuration to Order	1. External Battery Module Connector for Standards Model 2. Battery Capacity 7AH/9AH 3. Battery Quantity(2/4/6pcs) or (3/6/6pcs)					

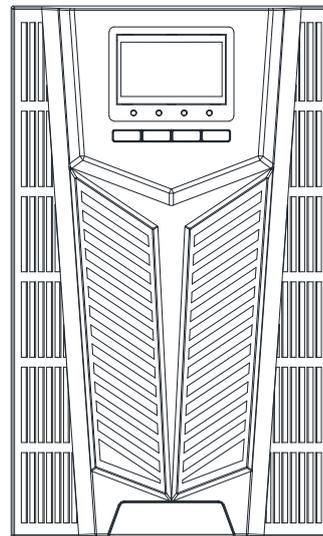|		1K	1KS	2K	2KS	3K	3KS
Physical	Chassis Style	Tower					
	Tower Dimension	1KS, 1K: 144(W)X224(H)x349(D)mm 2KS, 2K, 3K, 3KS: 190(W) x 323(H) x 368(D)mm					
	Weight (kg)	8.8	4.7	15.8	8.2	20.7	8.6

HMI	LCD DISPLAY	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status
	Standards Communication Interface	1.RS232 PORT 2.EPO / ROO Port 3.Intelligent Slot 4.USB Card (not HID)
	Optional Extension Card	5. NetWork Card: Support SNMP/TCP/IP for remote monitoring the UPS via Smart Phone APP, Web page, PC Monitor Software , Support Server / NAS shutdown 6. RS485-MODBUS Card, LAN(TCP IP)-MODBUS Card, 7. Mini AS400 Relay Card
Operating Environment Endurance	Temperature range	-10~50°C
	Relative Humidity	0-98%（Non-condensing）
	Acoustics Noise	<55dB @ 1 meters

UPS Outlook[3]

Front View

1K(S) Bezel

2K(S)/ 3K(S) Bezel

Rear View

RS232
EPO/ROO
USB
Intelligent Card Slot
External Battery Connector
Outlet
Input Circuit Breaker
Inlet
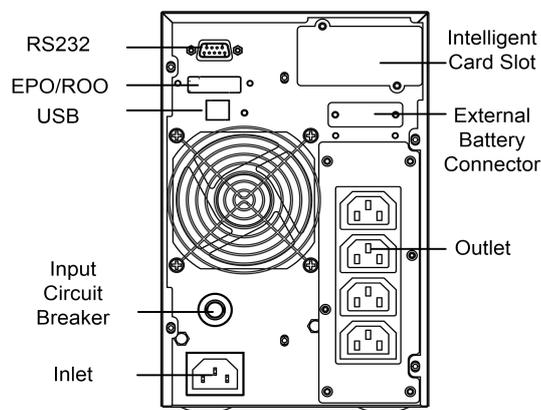
Tower 1K(S)-HV Rear Panel
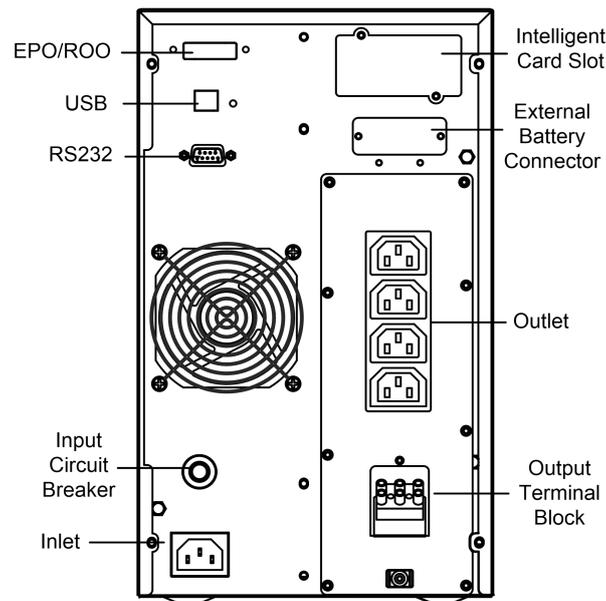
Tower 2K(S)-HV Rear Panel

EPO/ROO

USB

RS232

Intelligent Card Slot

External Battery Connector

Outlet

Input Circuit Breaker

Output Terminal Block

Inlet

Tower 3K(S)-HV Rear Panel

EPO/ROO

RS232

USB

Intelligent Card Slot

External Battery Connector

Outlet

Input Circuit Breaker

Output Terminal Block

Inlet
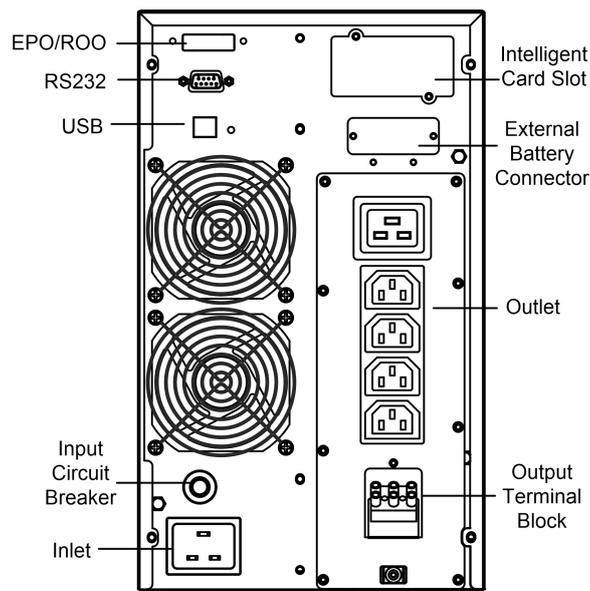
Note:

① Battery Capacity and voltage is open to customization

② Dimension might vary for different bezel

③ The socket and terminal configuration on the rear panel maybe different for countries or regions according to order

④ More parameter customization, please contact sales representative