

# TOWER 220V 31 10~20KVA

Online UPS 3:1phase PF: 0.9



## Features

- DSP (Digital signal processors) control
- Active input power factor correction, input power factor>0.99
- Three level inverter technology, lower harmonic, higher efficiency
- Wide input voltage range 90V~300V and frequency range 40~70Hz
- Generator compatible
- Cold start function
- Remote on off (ROO) function (optional)
- Economic operation mode (ECO)
- 50Hz/60Hz Frequency auto sensing
- Frequency converter mode: 50Hz input / 60Hz output or 60Hz input / 50Hz output
- Laser printer and ultrasound system load acceptable (customized)
- Communications: RS232(standard), USB / MODBUS / RS485 / SNMP / AS400 card (optional)
- Reliable design, made with strong glass fiber base (FR4) double side PCB, well designed ventilation and conformal coating
- Versatile input phase configuration, work with 1phase or 3phases mains input, without complex setting or power derating

## Rear Panel



1. RS232 port
2. EPO / ROO (Remote On Off) port
3. USB port
4. Intelligent slot for SNMP/MODBUS/dry contact card etc.
5. Battery connector
6. Input and output terminal block
7. AC input switch
8. Battery switch
9. AC output switch
10. Maintenance bypass switch

## Technical Specifications : Accept Customization Requests



Model	HV 31 C10K	HV 31 C10KS	HV 31 C15K	HV 31 C15KS	HV 31 C20K	HV 31 C20KS
Capacity	10KVA/9KW		15KVA/13.5KW		20KVA/18KW	
Phase	Single phase input single phase output or 3 phases input single phase output					
<b>AC INPUT</b>						
Wiring	Single Phase L/N+PE or 3 Phases (L1,L2,L3)/N+PE					
Rated Voltage	208/220/230/240VAC					
Voltage Range	Line-Neutral 90~300VAC ; Line-Line 150~500VAC					
Frequency Range	40Hz~70Hz					
Input Power Factor	≥0.99					
<b>AC OUTPUT</b>						
Wiring	L/N+PE					
Rated 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%(Non-Linear load)					
Overload Capability	10Min@105%~125% rated load; 60Sec.@125%~150% rated load; 0.5Sec.@>150% rated load					
<b>EFFICIENCY</b>						
Line Mode	>94%					
Battery Mode	>92%					
<b>BATTERY &amp; CHARGER</b>						
Rated Battery Voltage	192VDC	192/240VDC External battery	192VDC	192/240VDC External battery	192VDC	192/240VDC External battery
Battery Capacity	12V/7AHx16pcs	External battery	12V/9AHx16/32pcs	External battery	12V/9AHx16/32pcs	External battery
Backup Time	>6mins @ half load	depends	>8mins @ half load	depends	>6mins @ half load	depends
Charging Current	Long backup time model :4A					
Optional Configuration to Order	1. Battery capacity 7AH/9AH 2. Battery quantity 16pcs or 32pcs					
<b>HMI</b>						
LCD Display	Input mains voltage, frequency, load level, operation mode, health status					
Standards Communication Interface	(1) RS232 port					
Optional Extension Card	(2) EPO / ROO port (3) Intelligent slot (4) USB card port (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) CMC MODBUS card (7) AS400 Relay card					
<b>ENVIRONMENT</b>						
Temperature Range	-10~50°C					
Relative Humidity	0-98% (Non-condensing)					
Acoustics Noise	<60dB @ 1 meters					
<b>PHYSICAL</b>						
Dimension WxDxH(mm)	190x546x470	190x546x340	300x698x700	239x555x528	300x698x700	239x555x528
N.W(kg)	47.8	17	89.6	25.6	90.1	26.1

Product specifications are subject to change without prior notice.