



- Wide input Range 
- Power Factor **0.9 PFC** 
- Double Conversion **VFI TYPE** 
- Long Back-up 
- IFR 
- ECO 
- Interface SNMP 
- Hot swappable 

Tower type UPS, is True Online Double Conversion, commonly used in office environments, small data centres, or other locations where floor space is available and there's no need for rack-mounted equipment. Voltan UPS ensures providing a continuous and clean power supply to connected devices, regardless of the quality of the utility power. Have built in battery type for limited backup requirement and scalable for long run backup using external battery pack. LCD display panel are user friendly allowing user to monitor power status, configure settings and perform diagnostics directly from the UPS unit itself.

Tower type online UPS systems provide reliable protection against power disturbances such as blackouts, surges, sags, and spikes, making them essential components of critical infrastructure in various applications.

## Features:

- | High power density
- | Online double conversion with full digital control
- | Wide input voltage range: 110~300Vac
- | Input power factor 0.90 with PFC
- | Selectable output voltage: 208 / 220 / 230 / 240Vac
- | Smart charger design for optimized battery performance
- | Maximum charging current can be expanded to 12A (Long run unit)
- | Emergency power off function (EPO)
- | ECO mode operation for energy saving
- | Cold start
- | Intelligent fan speed regulation
- | Load segment settable (Optional)
- | Versatile LCD human-computer interface
- | Multiple communication interface: RS232 (USB / EPO / Relay card / SNMP card optional)
- | Multiple protection function: Short-circuit, overload, overheat, battery overcharge and over discharge, output low voltage and fan fault alarm

## SPECIFICATIONS

Model	V101HPR -TY	V101SPR -TY	V102HPR -TY	V102SPR -TY	V103HPR -TY	V103SPR -TY
Capacity	1000VA / 900W		2000VA / 1800W		3000VA / 2700W	
<b>Input</b>						
Nominal voltage	208 / 220 / 230 / 240Vac					
Input voltage range	110~300Vac (176~280Vac @ 100% load)					
Power factor	≥0.90					
<b>Frequency</b>						
Frequency range	40~70Hz (50/60Hz Auto-Sensing)					
<b>Output</b>						
Output voltage	208/220/230/240Vac					
Voltage regulation	±1%					
Power factor	0.9					
Output Frequency	46~54Hz or 56~64Hz					
Bat. mode	(50/60±0.1%)Hz					
Crest factor	3:1					
Harmonic distortion (THDv)	≤3% Linear load ≤5% Non linear load					
Transfer time	0ms					
AC mode to Bat.mode	4ms (Typical)					
Inverter to Bypass	Pure Sinewave					
Output waveform	Pure Sinewave					
Overload	Load≤110% last 60min; ≤125% last 10min; ≤150% last 1min;>150% turn to bypass mode immediately					
Line mode	40A (Breaker)		63A (Breaker)			
Bypass mode						
<b>Efficiency</b>						
AC Mode	88%		90%		91%	
Battery Mode	85%		87%		88%	
<b>Battery</b>						
Battery Number	2	3	2	3	4	6
Capacity (Standard unit)	9AH/12V (7AH/12V optional)					
Typical recharging time	4 hours (to 90% of full capacity)					
Charging Voltage	27.4Vdc±1%	41.1Vdc±1%	27.4Vdc±1%	41.1Vdc±1%	54.8Vdc±1%	82.2Vdc±1%
Charging current (Max)	6A/12A		1A		6A/12A	
<b>Indicators</b>						
LED display	Line mode, Bat. mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault					
LCD display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time					
<b>Alarm</b>						
Battery mode	Beeping every 4 seconds					
Battery low	Beeping every second					
Overload	Beeping twice every second					
Fault	Continuously beeping					
<b>Physical</b>						
Dimension W x D x H (mm)	144 x 293 x 209		144 x 393 x 209		191 x 460 x 337	
Net weight (kg)	4.1	9.3	12.5	10	19.5	24.5
<b>Environment</b>						
Operating temperature	0°C~40°C					
Storage temperature	-25°C~55°C					
Humidity range	20~95%RH @ 0~40°C (Non condensing)					
Altitude	<1500m, derating required when >1500m					
Noise level	<50dB at 1 Meter					
<b>Standards</b>						
Safety	IEC/EN62040-1, IEC/EN 62477-1					
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8					

Specifications are subject to change without prior notice.  
When output voltage is 208Vac, need to derate to 80% of the unit capacity.



## BATTERY PACK SPECIFICATIONS

Model	VBT4024C	VBT6036C	VBT8048C	VBT12072C	VBT16096C
<b>Battery System</b>					
Battery type	VRLA (Lead acid maintenance free battery)				
Typical battery recharging time	6~8 hours (to 90% of full capacity)				
Typical battery life	3~5 years, depend on discharging cycle and ambient temperature				
System voltage	24Vdc	36Vdc	48Vdc	72Vdc	96Vdc
Charging current (Max)	1.4A				
Battery quantity	4	6	8	12	16
Capacity	9AH/12V (7AH/12V optional)				
<b>Physical</b>					
Dimension W x D x H (mm)	144 x 399 x 209			191 x 460 x 337	
Net weight (kg)	122/134			122/134	
<b>Environment</b>					
Safety	CE				
Operating environment	0°C~40°C				
Relative humidity	0~95% (Non condensing)				
Noise level	<40dB at 1 Meter				

Note: VBT08048C "V" means series; "BT" means Battery Tower cabinet; "08" means battery number inside the cabinet; 048 means the battery system voltage; "C" means the cabinet coming with charger.