



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				20000VA / 1800W				3000VA / 2700W			
Input													
Nominal voltage		208 / 220 / 230 / 240Vac											
Input voltage range		110~300Vac (176~280Vac @ 100% load)											
Power factor		≥0.90											
Frequency													
Frequency range		40~70Hz (50/60Hz Auto-Sensing)											
Output													
Output voltage		208/220/230/240Vac											
Voltage regulation		±1%											
Power factor		0.9											
Output	Line mode	46~54Hz or 56~64Hz											
Frequency	Bat. mode	(50/60±0.1%)Hz											
Crest factor		3:1											
Harmonic distortion (THDv)		≤3% Linear load ≤5% Non linear load											
Transfer time	AC mode to Bat.mode	0ms											
	Inverter to Bypass	4ms (Typical)											
Output waveform		Pure Sinewave											
Overload	Line mode	Load≤110% last 60min; ≤125% last 10min; ≤150% last 1min;>150% turn to bypass mode immediately											
	Bypass mode	40A (Breaker)				63A (Breaker)							
Efficiency		93.5%											
AC Mode		88%				90%				91%			
Battery Mode		85%				87%				88%			
Battery													
Battery Number		2	3	2	3	4	6	4	6	6	8	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%	54.8Vdc±1%	82.2Vdc±1%	82.2Vdc±1%	109.6Vdc±1%	82.2Vdc±1%	
Charging current (Max)		6A/12A		1A		6A/12A		1A		6A/12A		1A	
Indicators													
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											
Alarm													
Battery mode		Beeping every 4 seconds											
Battery low		Beeping every second											
Overload		Beeping twice every second											
Fault		Continously beeping											
Physical													
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	10		24.5	
Environment													
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											
Standards													
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
Battery System					
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)				
Physical					
Dimension W x D x H (mm)	144 x 399 x 209		191 x 460 x 337		
Net weight (kg)	122/134		122/134		
Environment					
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.