



Wide input  
Range



Power  
Factor

**0.9  
PFC**

Double  
Conversion

**VFI  
TYPE**

Long  
Back-up



IFR



ECO



Interface  
SNMP



Hot  
swappable



Rack Mount type UPS, is True Online Double Conversion, they are compact and space-saving design, allowing them to fit seamlessly into standard rack enclosures alongside other IT equipment. Additionally, some of the rack-mount UPS models offer features such as hot-swappable batteries, remote monitoring, and network management capabilities for enhanced reliability and convenience in data center environments. 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.

## Features:

- | Rack/Tower convertible design
- | 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
- | Generator compatible
- | Hot-Swappable battery design
- | Cold start
- | Intelligent fan speed regulation
- | Load segment settable (Optional)
- | Versatile LCD human-computer interface
- | Multiple communication interface: SNMP card (RS232 (USB / EPO / Relay card optional)
- | Multiple protection function: short-circuit, overload, overheat, battery overcharge and over discharge, output low voltage and fan fault alarm

## SPECIFICATIONS

Model		V101HPR-RTY		V101SPR-RTY		V102HPR-RTY		V102SPR-RTY		V103HPR-RTY		V103SPR-RTY	
Capacity		1000VA / 900W				2000VA / 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											
Efficiency													
AC Mode		89%				91%				92%			
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%	109.6.Vdc±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		Continuously beeping											
Physical													
Dimension W x D x H (mm)		440 x 325 x 86.5			440 x 460 x 86.5	440 x 600 x 86.5			440 x 460 x 86.5	440 x 600 x 86.5			
Net weight (kg)		5.6		11.3	14	10.5		19.5	25	11		26	
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											
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.

3 kinds of LCD can be selected



Colourful LCD



Gray LCD



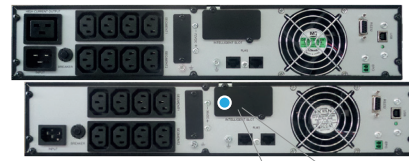
Blue LCD



Battery cabinet  
(Optional)



Optimized battery  
configuration  
7AHh/9AH (12V)



Optional socket



Relay card



SNMP



Multifunctional  
bracket



The LCD panel can  
be rotated

## BATTERY PACK SPECIFICATION

Model	VBT4024C	VBT6036C	VBT8048C	VBT12072C	VBT8089C
<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	8
Capacity	9AH/12V (7AH/12V optional)				
<b>Physical</b>					
Dimension W x D x H (mm)	440 x 430 x 86.5		440 x 550 x 86.5	440 x 710 x 86.5	440 x 550 x 86.5
Net weight (kg)	17.4	22.5	31.5	44	31.5
<b>Environment</b>					
Safety	CE				
Operating environment	0°C~40°C				
Relative humidity	0~95% (Non condensing)				
Noise level	<40dB at 1 Meter				

VBT08048C "V" means series; "BT" means Battery Rack; "08" means battery number inside the Rack; 048 means the battery system voltage; "C" means the Rack coming with charger