



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:

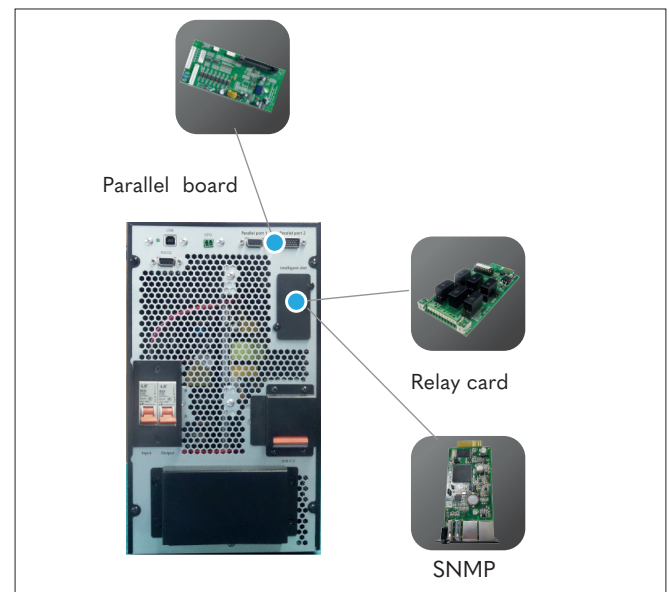
- | N+X parallel redundancy, support maximum 4 units in parallel
- | Online double conversion with full digital control
- | Optimization battery group, the quantity of battery: 16/18/20pcs (Settable)
- | Wide input voltage range: 110~286Vac
- | Wide input frequency range
- | Selectable output voltage: 208/220/230/240Vac
- | Generator compatible
- | ECO mode operation for energy saving
- | Self-testing when UPS startup
- | Multiple communication interface: RS232/ USB / EPO (Relay card /SNMP card optional)
- | Maximum charging current up to 10A
- | Cold start
- | Design with maintenance switch (Optional)
- | Intelligent fan speed regulation
- | Multiple protection function: short-circuit, over load, overheat, battery overcharge and over-discharge, output low voltage and fan fault alarm

SPECIFICATIONS

Model		V106HPR - TY	V106SPR - TY	V110HPR - TY	V110SPR - TY
Capacity		6000VA / 5400W		10000VA / 9000W	
Input					
Nominal voltage		208/220/230/240Vac			
Input voltage range		110~286Vac			
Power factor		≥0.90			
Bypass voltage range		230V: +20% (Optional+10%,+15%) 240V: +15% (Optional+10%) Min. Voltage: -45% (Optional-20%,-30%)			
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	±1%/±2%±/±4%/±5%/±10% of the rated frequency (Optional) (50/60±0.1%)Hz			
Frequency	Bat. mode				
Crest factor		3:1			
Harmonic distortion (THDv)		≤2% Linear load ≤5% Non linear load			
Transfer time	AC mode to Bat.mode	0ms			
	Inverter to Bypass	0ms			
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%			
Battery					
Battery voltage		±96/±108/±120Vd c (Settable)	±120Vdc	±96/±108/±120V dc (Settable)	±120Vdc
Capacity (Standard unit)		9AH/12V (7AH/12V optional)			
Typical recharging time		6~8 hours (to 90% of full capacity)			
Charging current		1A (Standard unit); Long run unit Max.current 10A (Charging current can be set according to battery capacity)			
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)		H: 191 x 460 x 337; S: 191 x 460 x 720 (With wheel)			
Net weight (kg)		12.5	70	14	71.5
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		<55dB at 1 Meter		<58dB 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	VBT40120N
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	±120Vdc
Battery quantity	2 * ±10 PCS
Capacity	7AH/9AH (12V)
Physical	
Dimension W x D x H (mm)	250 x 619 x 616 (With wheel)
Net weight (kg)	122/134
Environment	
Safety	CE
Operating environment	0°C~40°C
Relative humidity	0~95% (Non condensing)
Noise level	<40dB at 1 Meter

VBT40120N "V" means series; "BT" means Battery Tower cabinet; "40" means battery number inside the cabinet; 120 means the battery system voltage; "N" means battery with neutral connection.