



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:

- High power density
- LCD supports Rack/Tower convertible design
- 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
- Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232 / USB/ EPO (Relay card / SNMP card optional)
- Parallel kit default
- Maximum charging current up to 10A
- Cold start
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm

SPECIFICATIONS

Model		V106HPR-RTY	V110HPR-RTY
Capacity		6000VA / 5400W	10000VA / 9000W
Input			
Nominal voltage		208/220/230/240Vac	
Input voltage range		110~286Vac	
Power factor		≥0.90	
Bypass voltage range		Max. voltage: 220V: +25% (Optional +10%, +15%, +20%) 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 Frequency	Line mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional) (50/60±0.1%)Hz	
	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	ACe mode	≤110%, last 60min; ≤125%,last 10min; ≤150%,last 1min; >150% turn to bypass Immediately	
	Bat. mode		
Efficiency		93.5%	
Battery			
Battery voltage		±96/±108/±120Vdc (Settable)	
Capacity (Standard unit)		9AH/12V (7AH/12V optional)	
Typical recharging time		6~8 hours (to 90% of full capacity)	
Charging current		Max.current 10A (Charging current can be set according to battery capacity)	
Indicators			
LED display		Input voltage, Input frequency, Output voltage, Output frequency, Load percentage,	
LCD display		Battery voltage, Inner temperature & Remaining battery backup time Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault	
Alarm			
Battery mode		Beeping every 4 seconds	
Battery low		Beeping every second	
Overload		Beeping twice every second	
Fault		Continuously beeping	
Physical			
Dimension WxDxH (mm)		440 x 625 x 86.5	
Net weight (kg)		16	18
Environment			
Operating temperature		0°C~40°C	
Storage temperature		-25 0°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/EN62477-1	
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.

3 kinds of LCD can be selected



Colourful LCD



Gray LCD



Blue LCD



Battery cabinet
(Optional)



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



Parallel board



Relay card



SNMP



Multifunctional
bracket



The LCD panel
can be rotated

BATTERY PACK SPECIFICATIONS

Model	VBR20120N
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	1* ±10 PCS
Capacity	7AH/9AH (12V)
Physical	
Dimension W x D x H (mm)	440 x 680 x 131 (3U)
Net weight (kg)	58/63
Environment	
Safety	CE
Operating environment	0°C~40°C
Relative humidity	0~95% (Non condensing)
Noise level	<40dB at 1 Meter

Note: VBR20120N "V" means series; "BR" means Battery Rack; "20" means battery number inside the Rack; 120 means the battery system voltage; "N" means battery with neutral connection