



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 design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Optimization battery group, the quantity of battery
- 10~30KVA: 16/18/20pcs (30~50pcs is optional) 40KVA: 30~50pcs
- Maximum charging current up to 20A (Settable)
- Dual input source (optional for standard unit)
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Versatile LCD human-computer interface
- Generator compatible
- ECO mode operation for energy saving
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- The output can meet 100% unbalanced load
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: USB, RS232, RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (Optional), Relay card (Optional), Battery temperature

SPECIFICATIONS

Model		VS3310SPR-TY VS3310LPR-TY	VS3315SPR-TY VS3315LPR-TY	VS3320SPR-TY VS3320LPR-TY	VS3330SPR-TY VS3330LPR-TY	VS3340SPR-TY VS3340LPR-TY
Capacity		10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW	30KVA / 27KW	40KVA / 36KW
Input		10KVA / 10KW	15KVA / 15KW	20KVA / 20KW	30KVA / 30KW	40KVA / 40KW
Nominal voltage		380/400/415 Vac (3Ph+N+PE)				
Operating voltage range		305~478 Vac (Full load); 208~478Vac (50% load)				
Operating frequency range		40~70Hz (50/60Hz Auto-Sensing)				
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 protection range		50/60Hz±10%				
ECO range		Same as bypass				
Harmonic distortion (THDi)		≤3% Linear load				
Output						
Output voltage		380/400/415Vac (3Ph+N+PE)				
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					
Transfer time	AC mode to Bat. Mode	0ms				
	Inverter to Bypass	0ms				
Output waveform		Pure Sinewave				
Crest factor		3:1				
Harmonic distortion (THDv)		≤3% Linear load ≤5% Non linear load				
Output waveform						
Overload	AC mode	≤110%,last 60min; ≤125%,last 10min; ≤150%,last 1min; >150% turn to bypass Immediately				
	Bat. mode	≤110%,last 10min; ≤125%,last 1min; ≤150%,last 5s; >150% turn to bypass Immediately				
Efficiency						
Efficiency		up to 93.5%	up to 94.5%			
Battery						
Battery voltage	Standard unit	±120Vdc (20pcs 12V9AH); (20pcs 12V 7AH, 2x20pcs 12V 7/9AH optional)	±120Vdc (2x20pcs 12V9AH) (2x20pcs 12V 7AH optional)		±120Vdc (3x20pcs 12V9AH) (3x20pcs 12V7AH opt.)	±180Vdc (2x30pcs 12V9AH) (2x30pcs 12V7AH opt.)
	Long run unit	10~30KVA: ±96/108/120Vdc; battery quantity(16~20pcs, 16pcs default, Standard unit and 20pcs no power derating; 18pcs output power factor 0.8/0.9; 16pcs output power factor 0.7/0.8) 10~30KVA (Optional): ±180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional)				40KVA: ±180/192/204/ 216/228/240/252/264/ 276/288/ 300Vdc(30/32/34/36/ 38/40/42/44/46/48 /50pcs)
Charge Current (charge current can be set according to battery capacity installed)	Standard unit	1.35A (2.7Aoptional)	2.7A		4.05A	2.7A
	Long run unit	14A Max.	16A Max.	18A Max.	20A Max.	20A Max.
Physical						
Dimension	Standard unit	250 x 900 x 868				
WxDxH (mm)	Long run unit	250 x 580 x 655				
Net weight (kg)		129/35	186/39	187/40	236/43	239/46

Specifications are subject to change without prior notice.

SPECIFICATIONS - contd..

Model	VS3310SPR-TY VS3310LPR-TY	VS3315SPR-TY VS3315LPR-TY	VS3320SPR-TY VS3320LPR-TY	VS3330SPR-TY VS3330LPR-TY	VS3340SPR-TY VS3340LPR-TY
Environmental					
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				

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When output voltage is 208Vac, need to derate to 80% of the unit capacity.



BATTERY PACK SPECIFICATIONS

Model	VBT4012N	VBT332080120N	VBT333080120N	VBT334060180N	VBT334080240N
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			±180Vdc	±240Vdc
Battery quantity	2 * ±10 PCS	4 * ±10 PCS		2 * ±15 PCS	2 * ±20 PCS
Capacity	7AH/9AH (12V)				
Physical					
Dimension W x D x H (mm)	250 x 619 x 616 (With wheel)	250 x 900 x 868 (With wheel)			
Net weight (kg)	122/134	244/265		200/215	244/265
Environment					
Safety	CE				
Operating environment	0°C~40°C				
Relative humidity	0~95% (Non condensing)				
Noise level	<40dB at 1 Meter				

Note: VBT332080120N "V" means series; "BT": means Battery Tower cabinet; "80" means battery number inside the cabinet; 240 means the battery system voltage; "N" means battery with neutral connection