VOLTAN

POWERING CONNECTIONS • ENERGIZING SOLUTIONS

3:3 Phase PF: 1.0
Power Range: 10 KVA ~ 40 KVA



- Wide input Range
- Power Factor 1.0 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 crrent 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, oveload, 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

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CE ISO CERTIFIED COMPANY RoHS

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SPECIFICATIONS

Model			V3310LPR-TY	V3315LPR-TY	V3320LPR-TY	V3330LPR-TY	V3340LPR-TY
Capacity			10KVA / 10KW	15KVA / 15KW	20KVA / 20KW	30KVA / 30KW	40KVA / 40KW
Input							
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)				
	Bat. mode		(50/60±0.1%)Hz				
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.

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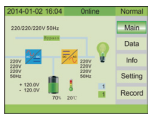
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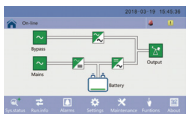
SPECIFICATIONS - contd..

Model	V3310LPR-TY	V3315LPR-TY	V3320LPR-TY	V3330LPR-TY	V3340LPR-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.


Segment LCD


TFT colouful LCD


7 inch colouful LCD


Battery cabinet
(Optional)


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


Relay card


SNMP




SNMP


Parallel cable

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 discharing 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

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