



## VR33 Series

### UPS 10-200kVA

- » IGBT Rectifier
- » High Efficiency  $\geq 95\%$
- » Output PF1.0
- » Fault Trace Management



Finance



Telecommunication



Data Center



Government



Energy



Medical



Transportation



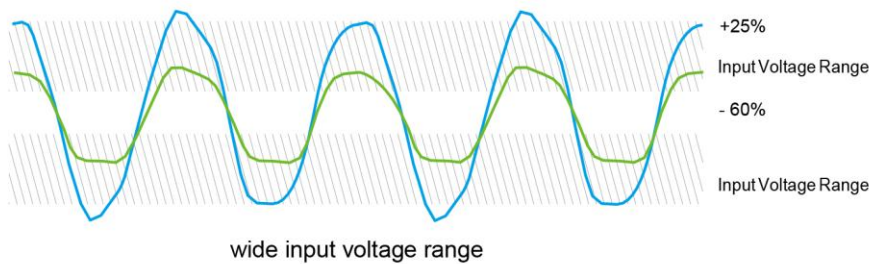
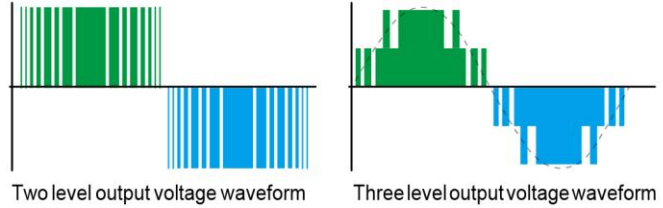
Electricity

# VR33 Series UPS



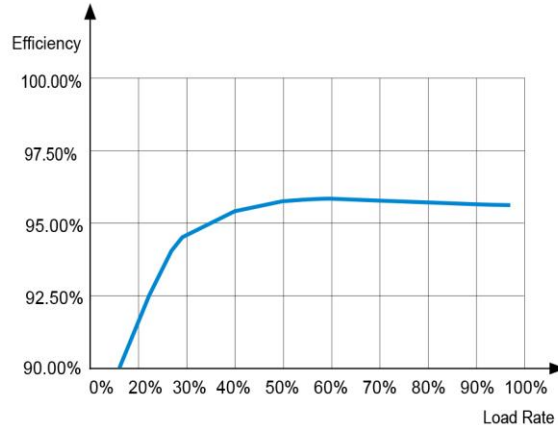
## High Reliability

- Super wide input voltage range -60%~+25%
- Robust overload ability
- Dual system control card prevent single failure point
- IGBT rectifier benefit with low THDi (<3%) and high power factor
- Bus synchronization control function provides reliable high power for the dual bus application
- 3-level IGBT inverter ensures excellent performance
- Intelligent fan control according the load capacity reduces the noise and prolongs fan service life



## Green Power

- High efficiency in online mode ( $\geq 95\%$ ) reduces heat dissipation and limits power consumption costs
- Efficiency > 99% in ECO mode gives significant cost reduction



### For example:

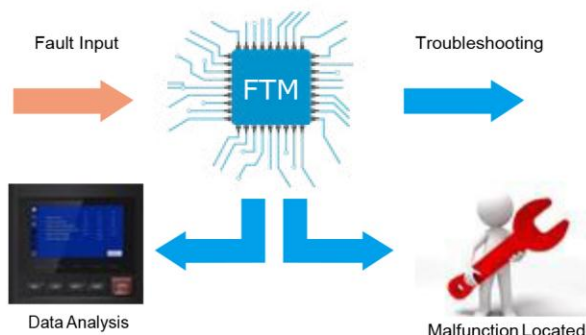
- VR Series 200kVA UPS efficiency ranks 1% higher than industry average (94%)
- Saving UPS electricity 10512 kWh per year
- The equivalent of nearly 1681.92 USD saved per year (Calculation bases on 0.16USD/kWh).



Save **\$1681.92** per Year!

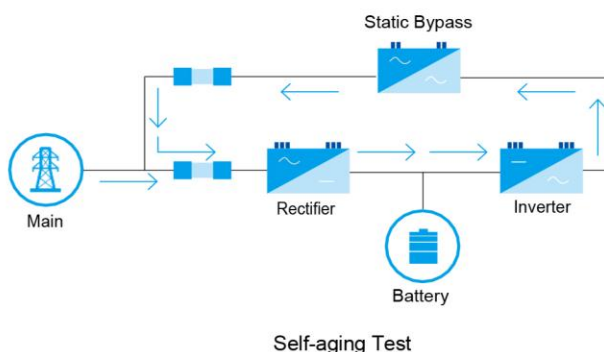
## Intelligent Management

- Fault Trace Management (FTM) for convenient failure analysis (waveform record)
- Intelligent battery management system prolongs battery service life
- HMI enables more setting and status showing
- Auto dedusting function
- Key components pre-alarm function



## Flexible Design

- Common battery bank sharing in parallel system
- Flexible battery configuration improves service ability
- High power density design with compact size, 120kW only cover 0.3825 m<sup>2</sup>
- Frequency converter function (60Hz to 50Hz or 50Hz to 60Hz)
- Smart generator management
- Self-aging test function without load enables onsite commission
- Easy onsite parallel modification
- Built-in battery quantity: 32-72 pcs configurable



## More Options

- Customized power distribution cabinet
- Flexible Network Management: SNMP
- Expanded dry contact
- Intelligent Battery Monitoring System
- Bypass voltage regulator
- Dual system control card
- Auto Switch: STS, ATS
- Energy feedback absorber
- N+X in parallel
- Input isolation transformer
- SPD: C Grade
- Output Synchronization Common Bus
- Battery Charge Temperature Compensation



### Technical Specifications

MODEL	VR3310i/ VR3310	VR3320i/ VR3320	VR3330i/ VR3330	VR3340	VR3350	VR3360	VR3380	VR33100	VR33120	VR33160	VR33200
<b>INPUT</b>											
Voltage (Vac)	380/400/415 (138~485 L-L)										
Frequency (Hz)	40~70										
Bypass Voltage (Vac)	380/400/415-20%~+15%										
Power Factor	≥0.99										
Phase	3φ4W+PE										
<b>OUTPUT</b>											
Capacity (kVA)	10	20	30	40	50	60	80	100	120	160	200
Power Factor	1										
Voltage (Vac)	L-N: 220/230/240±1% L-L: 380/400/415±1%										
Frequency (Hz)	50/60±0.2%(Battery mode)										
Phase	3φ4W+PE										
Unbalance 3-phase voltage stabilization with full load	≤2%										
Waveform	Pure sine wave, THD<1% at linear										
Transfer Time (ms)	0										
Efficiency	≥95%										
Overload	105%~ 115% for 60 min ,116%~ 130% for 10 min, 131%~ 150% for 1 min, above 150% for 200 ms										
<b>BATTERY</b>											
Battery Voltage (Vdc)	±192 (±180/±204/±216/±228/±240 Settable for long backup type)										
BATT Type	32x7AH 12V (34/36 optional)/ External	36x9AH 12V (32/34 optional)/ External	72x9AH 12V(64/68 optional)/ External	72x9AH 12V/ External	External						
Charging Current (A)	1-10 settable		1-10 settable		1-20 settable		1-30 settable		1-40 settable	1-50 settable	
<b>OTHER</b>											
Communication Interface	RS485 MODBUS,dry contact (SNMP Adapter optional)										
Display	Touch screen+LED										
Alarm	AC input abnormal, low battery, overload, failure										
Protection	Output short-circuit, overload, over-temperature, battery low voltage, output over/low voltage										
Noise (dB)	<65										
Working Temperature (°C)	0 ~ 40										
Relative Humidity	0 ~ 95%, No condensation										
Dimension (WxDxH)(mm)	320x840x1030 / 320x840x867		320x840x1400 / 320x840x867		450x840x967		450x840x1400		600x900x1600		
Weight (kg)	240/120	250/120	350/120	370/120	160		210	242	242	320	350

- Specification is subject to change without prior notice.
- Information is provided for reference purpose only and constitutes neither an offer or an acceptance.

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