

# VFI- K -RT+ UPS

Rack / Tower Models

6 & 10KVA Extended Run Systems

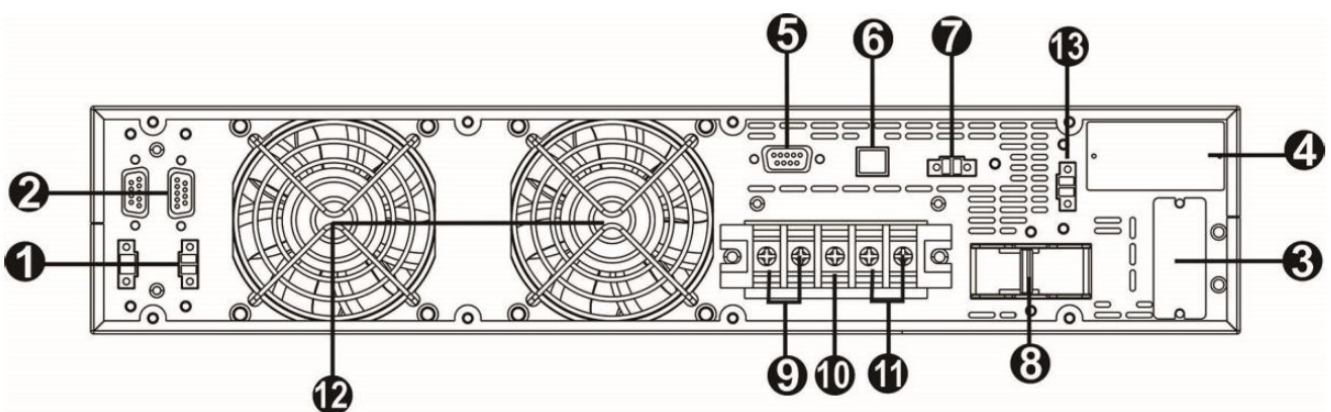
Online Double Conversion

## RACK/TOWER EXTENDED RUN UPS



- True Online Double Conversion Topology
- DSP technology for high performance
- Unity Output Power Factor
- 50/60Hz Frequency Conversion Mode
- Emergency Power Off (EPO) Function
- Generator Compatible
- Intelligent Slot for SNMP / Relay Card
- Optional N+X Parallel Redundancy
- Adjustable Charging Current
- Built in Surge Protection
- Smart Battery Charger to Optimise Battery Performance

### Rear Panel Configuration



- ① Current sharing Port for Parallel units
- ② Parallel Port
- ③ External Battery Connector
- ④ Intelligent Slot
- ⑤ RS232 Port
- ⑥ USB Port
- ⑦ Emergency Power Off (EPO)

- ⑧ Input Circuit Breaker
- ⑨ Output Terminals
- ⑩ Ground
- ⑪ Input Terminals
- ⑫ Cooling Fan
- ⑬ External Maintenance Bypass Switch Port

*A Gland Plate is supplied as standard for the input and output terminals*

# Specifications

MODEL	VFI6000RT+	VFI10KRT+
Capacity	6000VA / 6000W	10000VA / 10000W
<b>INPUT</b>		
Voltage Range	110-300VAC $\pm$ 3 % @ 50% load, 176-300VAC $\pm$ 3 % @ 100% load	
Frequency Range	45~54Hz @ 50Hz / 54~64Hz @ 60Hz	
Phase	Single phase with ground	
Power Factor	$\geq$ 0.99 @ Full load	
THDi	$\leq$ 4% @ 100% Load, $\leq$ 6% @ 50% Load	
<b>OUTPUT</b>		
Voltage	208*/220/230/240 VAC	
Voltage Regulation (Battery Mode)	$\pm$ 1%	
Frequency Range (Synchronized Range)	46~54Hz @ 50Hz, 56~64Hz @ 60Hz	
Frequency Range (Batt. Mode)	50 Hz $\pm$ 0.1 Hz (60Hz $\pm$ 0.1 Hz)	
Current Crest Ratio	3:1	
Harmonic Distortion	$\leq$ 2 % THD (Linear Load), $\leq$ 6 % THD (Non Linear Load)	
Transfer Time	AC to DC	Zero
	Inverter to Bypass	Zero
Waveform (Batt. Mode)	Pure Sinewave	
Over Load Capacity	On-line Mode	100%~110% 10min, 110%~130% 1min
	Inverter(Battery) Mode	100%~110% 30sec, 110%~130% 1sec
<b>EFFICIENCY</b>		
ECO mode	$\geq$ 98.5% @ full charged battery	
AC Mode	$\geq$ 94% @ full charged battery	
Battery Mode	$\geq$ 92% @ full load	
<b>BATTERY</b>		
Battery Type	Sealed Lead Acid	
Numbers	16-20**	
Charging Current (CC)	4.0A	
Charging Voltage(FV)	218.4VDC[16] 273.0VDC[20] $\pm$ 1%	
<b>INDICATORS</b>		
Status	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator Via LCD	
<b>ALARM</b>		
Battery Mode	Sounding every 4 seconds	
Low Battery	Sounding every second	
Overload	Sounding twice every second	
Fault	Continuously sounding	
<b>PHYSICAL</b>		
Dimension, D X W X H (mm)	610 x 438 x 88 (2U)	
Net Weight (kgs)	17	20
<b>ENVIRONMENT</b>		
Humidity	20-90 % RH @ 0- 40°C (non-condensing)	
Noise Level	< 55dBA @ 1 Meter	< 58dBA @ 1 Meter
<b>MANAGEMENT</b>		
Smart RS-232	Supports Windows 98 SE/ME/NT 4.x/2000/2003/XP/Vista/2008/7/8/10, Linux, MAC.	
USB		
Optional external Slot (for SNMP, Dry contact, ...)		

\*Derate capacity to 80% when the output voltage is adjusted to 208VAC.

\*\*Default is 20 pcs. 16 or 18pcs optional with derating of output pf to 0.8 or 0.9 respectively.

Note the base UPS modules do not contain internal batteries. Additional cabinets must be fitted for correct UPS operation. Alternatively, an external battery cabinet can be connected.

Battery Cabinet		BV3-240-9			
<b>OUTPUT</b>					
Voltage	240Vdc				
Capacity	9Ah				
<b>PHYSICAL</b>					
Dimension, D X W X H	600x438x133 (3U)				
Net Weight (kgs)	63kg				
<b>RUNTIME</b>					
Number of Cabinets	1	2	3	4	
Power	2000W	26min	1hr 2min	1hr 44min	2hr 29min
	4000W	11min	26min	44min	1hr 3min
	6000W	7min	16min	26min	38min
	8000W	5min	11min	18min	26min
	10000W	3min	8min	14min	20min



NB: Runtime Information is a guide only.

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Although every effort is made to ensure accuracy of this document, information is provided for guidance only and does not form part of any contract. Specifications are subject to change without notice.

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