

VFI- K -RT+ UPS

Rack / Tower Models

3.6 - 10KVA Extended Run Systems

Online Double Conversion

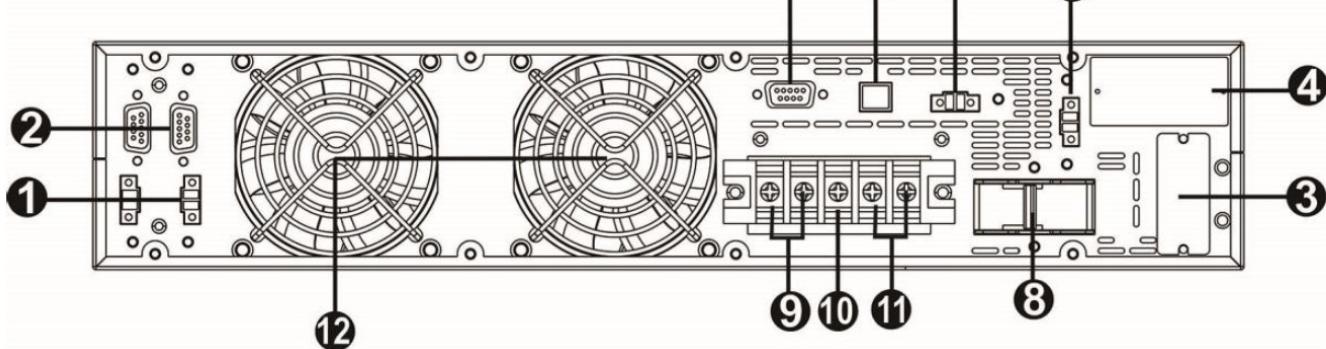
RACK/TOWER EXTENDED RUN UPS



True Online Double Conversion Topology
Electronically configurable for 3600W - 10KW
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		VFI10KRT+
Maximum Capacity		10,000W
Rated Capacity		3600W to 10,000W Electronically Set †
INPUT		
Voltage Range		110-300VAC ± 3 % @ 50% load, 176-300VAC ± 3 % @ 100% load
Frequency Range		45~54Hz @ 50Hz / 54~64Hz @ 60Hz
Phase		Single phase with ground
Power Factor		≥ 0.99 @ Full load
THDi		≤4% @ 100% Load, ≤6% @ 50% Load
OUTPUT		
Voltage		208°/220/230/240 VAC
Voltage Regulation (Battery Mode)		± 1%
Frequency Range (Synchronized Range)		46~54Hz @ 50Hz, 56~64Hz @ 60Hz
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz (60Hz ± 0.1 Hz)
Current Crest Ratio		3:1
Harmonic Distortion		≤ 2 % THD (Linear Load), ≤ 6 % THD (Non Linear Load) ≤ 4 % 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
EFFICIENCY		
ECO mode		≥98.5% @ full charged battery
AC Mode		≥94% @ full charged battery
Battery Mode		≥92% @ full load
BATTERY		
Battery Type		Sealed Lead Acid
Numbers		16-20**
Charging Current (CC)		4.0A
Charging Voltage(FV)		218.4VDC[16] 273.0VDC[20] ± 1%
INDICATORS		
Status		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator Via LCD
ALARM		
Battery Mode		Sounding every 4 seconds
Low Battery		Sounding every second
Overload		Sounding twice every second
Fault		Continuously sounding
PHYSICAL		
Dimension, D X W X H (mm)		610 x 438 x 88 (2U)
Net Weight (kgs)		20
ENVIRONMENT		
Humidity		20-90 % RH @ 0- 40°C (non-condensing)
Noise Level		< 58dBA @ 1 Meter
MANAGEMENT		
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, ...)		Power management from SNMP manager and web browser

*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.

† Specify when ordering

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

NB: Runtime Information is a guide only.

Accessories



Maintenance Bypass Switch

Rackmountable Maintenance Bypass Switch with built in control to automatically force VFI UPS into bypass if activated.



Rack Rails

Front & Rear supported rails for UPS and cabinet. Adjustable depth from 600-1200mm cabinets



Intelligent Slot Communications

SNMP or Dry Relay Cards can be fitted to the Intelligent Slot for enhanced communication options.

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Specifications are subject to change without notice.