

# VFI ONLINE UPS SYSTEMS

Independent  
Frequency  
Voltage



Online Double Conversion UPS Systems in Rack or Tower Format. Extended Run Capability. From 1 to 10KVA.

## VFI-T SERIES



VFI1000T with battery pack



VFI1000T rear panel + cab



VFI3000T rear panel

The VFI-T systems are small compact units in tower format. All units are pluggable with IEC input & output sockets. Matching battery packs can be daisy chained to extend runtime and each contains it's own integral charger for rapid recharge.

Ratings Available: 1 & 3KVA



VFI10KT

The VFI-KT systems are hardwired systems that include a removable bypass module, allowing the UPS to be serviced or replaced without downtime or the need for a separate wrap around bypass switch.

They can be paralleled together to create a fully redundant solution.

Ratings Available: 10KVA

## VFI-B SERIES



The VFI-B series can be rack mounted or free standing in horizontal or vertical modes. The pluggable units (1.5 & 3KVA) have easy to remove battery trays and hot swappable capability for ease of maintenance without downtime.



VFI1500B Rear



VFI3000B Rear



Units with high capacity chargers are available in 3 & 6KVA models for applications requiring very long runtimes and fast recharge.

Ratings Available: 1.5KVA, 3KVA & 6KVA

## VFI FEATURES

- Online Double Conversion
- High Power Density - 0.9 output power factor.
- Low input current Harmonic Distortion
- Selectable high efficiency (ECO) mode of operation.
- Intelligent Port for SNMP or Relay Cards
- Intuitive LCD display
- Cold Start Capability
- Standard units have built in batteries
- Matching battery cabinets can be added to extend runtime
- High Capacity Charger models available for extreme runtime applications
- Emergency Power Off (EPO) Function
- Load Shed Function (Pluggable Units)
- 3 Stage charger mode for rapid recharge
- Frequency Converter Mode<sup>†</sup>

## SPECIFICATIONS

MODEL	VFI1000T	VFI3000T	VFI10KT	VFI1500B	VFI3000B	VFI3000BL	VFI6000BL	
CAPACITY (VA/WATTS)	1000/900	3000/2700	10K/9K	1500/1350	3000/2700	3000/2700	6000/5400	
<b>INPUT</b>								
Voltage Range (Full Load)	160 - 300VAC		160-276VAC	160 - 300VAC		160-276VAC		
Minimum Voltage @ Load	110VAC @ 30%		120VAC	110VAC @ 30%		120VAC		
Frequency Range	40-70Hz		45-66Hz	40-70Hz		45-66Hz		
Phase	PNE							
Power Factor	> 0.85@25% Load, >0.95 @50% Load, >0.97@75% Load, >0.99 @ 100%Load @ Nominal Voltage							
<b>OUTPUT</b>								
Voltage (Vac)	208/220/230/240		220/230/240	208/220/230/240		220/230/240V		
Power Factor	0.9							
Voltage Regulation	±1%		±2%	±1%		±2%		
Frequency	Line Mode	45-55Hz ±0.02Hz@ 50Hz, 55-65Hz		±1-10% selectable	45-55Hz ±0.02Hz@ 50Hz, 55-65Hz ±0.02Hz@60Hz		±1-10% selectable	
	Battery / Free Run	±0.02Hz@60Hz			±0.1Hz			
Crest Ratio	3:1							
Harmonic Distortion	Linear Load	73% THD						
	Non-Linear	75% THD						
Waveform	Sine Wave							
Overload	Line Mode	<= 110%: 10min; <=130%: 1min; <=150%:3sec		<= 110%: 60min; <=125%: 10min; <=150%:1min	<= 110%: 10min; <=130%: 1min; <=150%:3sec		<= 110%: 60min; <=125%: 10min; <=150%:1min	
	Bypass Mode	7A Breaker	25A Breaker	60A Breaker	12A Breaker	25A Breaker	40A Breaker	
Transfer Time	Line to Battery Mode	Zero						
	Line to Bypass	Typically 4ms						
Frequency Conversion	Supported. Set to 50 or 60Hz output via LCD							
Switchable Bypass	Supported. Set via LCD		N/A	Supported. Set via LCD		N/A		
ECO Mode Support	Supported. Set via LCD							
<b>EFFICIENCY</b>								
AC Mode	88%	90%	93.50%	88%	90%	93.50%		
Battery Mode	84%	87%		85%	87%			
ECO Mode	94%							
<b>BATTERY</b>								
Type & Quantity	12V 9Ah x3	12V 9Ah x6	12V 9Ah x16	12V 9Ah x3	12V 9Ah x6	N/A	N/A	
Charge Current	1A					12A	6A	
Nominal Battery String	36V	72V	±120V	36V	72V	72V	±96,108 or 120V	
<b>PHYSICAL</b>								
Environment	0-40°C 0-90% RH (Non Condensing). Altitude 1500m max (Derating required above)							
Noise	<50dB		<55dB	<50dB		<55dB		
Input Connector	IEC C14 inlet	IEC C20 inlet	Hardwired	IEC C14 inlet	IEC C20 inlet	IEC C20 inlet	Hardwired	
Output Connector	3x IEC C13 outlets	8x IEC C13 1x IEC C19		6x IEC C13 outlets	8x IEC C13 1x IEC C19	8x IEC C13 1x IEC C19		
Dimensions	WxDxH (mm)	144x400x215	191x468x337	250x502x616	440x430x86.5	440x696x86.5	440x572x86.5	
Net Weight	kg	13	25.5	64	15	32	16	
<b>STANDARDS</b>								
Safety	EN62040-1							
EMC	EN62040-2							
<b>Matching Battery Cabinets</b>								
Model	BP1000T	BP3000T	BP10KT	BP1500B	BP3000B	N/A	BP6000B	
Battery Type & Quantity	12V 9Ah x6	12V 9Ah x12	12V 9Ah x32	12V 9Ah x6	12V 9Ah x12	N/A	12V 9Ahx20	
Dimensions	WxDxH (mm)	144x400x215	191x468x337	250x502x616	440x430x86.5		440x696x86.5	443x580x131
Net Weight	kg	26	44	120	26		44	60

Although every effort has been made to ensure the accuracy of these specifications, they are provided for guidance only and do not form part of any contract.  
 † The VFI1000T is autosensing and does not operate in frequency conversion mode.