

# TURBO

## 1-3 KVA (1 Ph - 1 Ph UPS) Online BIB UPS

# VIVATK

### Features

- \* High frequency on-line double conversion technology DSP (Digital signal processors) control technology
- \* Active power factor correction (APFC), input power factor up to 0.99 Output power factor 0.9
- \* Wide input voltage range (110 V — 300 Vac) and frequency range (40 — 70 Hz)
- \* Auto sensing frequency 50 / 60 Hz frequency conversion
- \* Cold start
- \* Rear ventilation design and variable speed fan
- \* Effective software and hardware protection
- \* Quick and stable charging, 90% capacity restored in 3 h (standard model UPS)
- \* Linear derating in low voltage input reducing battery discharging times
- \* Settable delayed start when power is restored Advanced battery management (ABM)
- \* Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- \* Multi-platform communications: RS232 (standard), USB / RS485 /SNMP / dry contacts (optional)
- \* Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, and 12 A charger (2/3 kVA only)



 **Anushri Systech Private Limited**

An ISO 9001:2008 Certified Company

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# Technical Specification



Capacity	1kVA/900 W		2KVA/1800W		3kVA/2700 W	
<b>INPUT</b>						
Rated voltage	208/220/230/240 Vac					
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load) ; 176 ~ 280 Vac ( no derating ) ; 280 ~ 300 Vac (derating 50%)					
Frequency	40~70 Hz (auto-sensing)					
Power factor	≥0.99					
Bypass voltage range	-25% ~ + 15% (settable)					
Total harmonic distortion (THDi)	≤6%					
<b>OUTPUT</b>						
Voltage range	208/220/230/240 Vac (settable via LCD)					
Voltage regulation	±1%					
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)					
Waveform	Sinusoidal					
Power factor	0.9					
Total harmonic distortion (THDv)	≤ 2 % (linear load ) , ≤ 5% (non- linear load)					
Crest factor	3:1					
Overload	105% ~ 125% for 1min, 125% ~ 150% for 30 s, > 150% for 300 ms					
<b>BATTERIES</b>						
DC voltage	24V	36V	48V	72V	72V	96V
Inbuilt Battrey	2*7AH	3*7AH	4*7AH	6*7AH	6*7AH	8*7AH
Recharge time	Standard Model: 90% Capacity restored in 3 Hours Long time model: depend on the capacity of battery					
<b>SYSTEM</b>						
Efficiency	≥ 90% (Mains mode)		≥ 91% (Mains mode)		≥ 92% (Mains mode)	
	≥ 85% (Battery mode)		≥ 86% (Battery mode)		≥ 87% (Battery mode)	
	≥ 95% (ECO mode)		≥ 96% (ECO mode)		≥ 97% (ECO mode)	
Transfer time	Mains mode to battery mode; 0ms, Inverter mode to bypass mode: 4 ms (typical)					
Protections	Short cicuit, over load, overtemperature, battery discharge protection and fan testing protection					
Communications	RS232 (Standard), USB/ RS485/ dry contacts / SNMP ( Optional)					
Display	LCD+LED					
Standards	"EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2,,IEC 62040-1,,IEC 62040-3,"					
<b>OTHERS</b>						
Operating temperature	0° c- 40° C					
Storage temperature	-25°C ~ 55°C (Without batteries)					
Relative Humidity	0 ~ 95% (non- condensing)					
Altitude	≤ 1000 m, derating 1 % for each additional 100 m					
IP rating	IP 20					
Noise level at 1m	≤ 50 dB					
Dimension(WxDxH) (mm)	144 × 336 × 214		191 × 418 × 335		191 × 464 × 335	
Net weight (kg)	9.5	13	18	25.7	32	

\* All specifications Subject to change without notice



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