

# TURBO 10-20KVA (3Ph - 1Ph UPS) Online HF TRANSFORMER LESS

# VIVATK

## Features

- \* Advanced DSP and 3-level technology
- \* Active power factor correction (APFC), input power factor up to 0.99
- \* High efficiency 95% (up to 98% in ECO mode)
- \* Advanced digital parallel technology
- \* 3 : 1 to 1 : 1 model settable
- \* Wide input voltage range (190 — 499 Vac) and frequency range (40 — 70 Hz)
- \* 50 / 60 Hz frequency auto sensing
- \* Two modes of frequency conversion: 50 Hz input 160 Hz output or 60 Hz input / 50 Hz output
- \* Dual-input design, supporting independent bypass
- \* Flexible battery configuration (settable 16 – 20 pcs batteries)
- \* Digitally controlled charger
- \* High charging current available (Max. 10 A)
- \* Charging voltage and current configured by demands
- \* Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- \* Intelligent battery management, automatic floating I equalizing charge control, charger dormancy control, increasing battery life by 50%
- \* Ability to switch on the UPS with batteries
- \* Fan speed varies intelligently with temperature, reducing noise and extending its service life
- \* Equipped with self-aging function
- \* Compact internal layout, miniaturized the complete unit for small footprint
- \* LCD+LED display, multi-functional keys operation, friendly human-machine interface
- \* Powerful background software for parameters configuration
- \* Advanced multi-perform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- \* Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check
- \* RS 232 and smart card slot included
- \* Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms



 **Anushri Systech Private Limited**

An ISO 9001:2008 Certified Company

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# Technical Specification



Capacity	10 KVA/ 10000 W	15 KVA / 15000 W	20 KVA / 20000 W
<b>INPUT</b>			
Input writing	Three phase five - wire (3Ø+N+ PE)		
Rated voltage	380/ 400/ 415 Vac		
Voltage range	190 ~ 305 Vac ( linear derating between 50% and 100% load ); 305 - 499 Vac ( no derating )		
Rated frequency	50 / 60 Hz ( auto- sensing )		
Frequency range	40 ~ 70 Hz		
Power factor	≥0.99		
Bypass voltage range	-40% ~ + 15% (settable)		
Total harmonic distortion (THDi)	≤5%		
<b>OUTPUT</b>			
Output writing	single phase three - wire (1Ø+N+PE)		
Rated voltage	208 (PF= 0.9) / 220 /230/ 240 / Vac		
voltage regulation	±1%		
frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1 % Hz ( battery mode)		
Waveform	Sinusoidal		
Power factor	1		
Total harmonic distortion (THDv)	≤ 1% (linear load ) , ≤ 3% ( non- linear load )		
Crest factor	3:1		
Overload	105% - 110% for 10min, 110% - 125% for 1 min, 126%- 150% for 30 s		
<b>BATTERIES</b>			
DC voltage	192 Vdc (192- 240 Vdc settable )		
Number of battery	16 pcs ( 16- 20 settable )		
Charging current ( Max.)	Long time model: 5A (Default ) , 1 - 5A Settable; 10 A		
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model : depend on the capacity of battery		
<b>SYSTEM</b>			
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, 98% in ECO mode		
Transfer time	0 ms		
Protections	Short circuit, output over load, overtemperature, battery low voltage, overvoltage/ under voltage and fan failure		
Max.number of parallel connections	4		
communications	RS232 ( Standard ) , USB / RS485 / dry contacts , SNMP / battery temperature compensation (optional)		
Display	LCD + LED		
<b>OTHERS</b>			
Operating temperature	0 degree c- 40 degree 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 1 m	≤ 50 Db		
Dimensions (W×D×H) (mm)	191 × 495 × 711 (S), 191 × 495 × 350 (H)	191 × 495 × 515 (S)	
Packaged dimensions (W×D×H) (mm)	310 × 685 × 941 (S), 318 × 617 × 475 (H)	285 × 593 × 618 (S)	
Net weight (Kg)	64 (S), 18.5 (H)	26.5 (H)	
Gross weight (Kg)	72(S), 20 (H)	28(H)	

**\* All specifications Subject to change without notice**



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