



# *Aviator - Sinewave*

## *Home UPS*

- Single Card Reliability with DSP Technology.
- Multi Color LCD Display.
- Frequency Available : 50/60Hz.
- Smart Battery Charging with Setable all Parameters.
- Best Regulated Output.
- Sine wave Output.
- Battery Charging at Low Voltage.
- Maintain Battery Health for Longer Life.
- Easy Installation and Low Maintenance.
- Protections : RBP, OVL, BL, OBC, SC, IHV, ILV & Lightning.
- Compatible with DG as an Input Source.
- Compatible for Computer Load.
- Compatible with SMF, Gel & Tubular Batteries.

# TECHNICAL SPECIFICATION

Parameters		Rating						
Model Name		EHU/975/12	EHU/1175/12	EHU/1675/24	EHU/2200/24	EHU/4000/48	EHU/5500/48	
Operating DC Voltage		12V		24V		48V		
Switching Element		MOSFET						
Charger Topology		Boost Mosfet						
Parameters (Grid)		Default Value						Variable Range (Each Batt.)
Nominal Grid Voltage		230V AC						
Nominal Frequency		50Hz						
Frequency Range		45-55Hz ± 2Hz						
Battery Charging Method 4 Stages		Bulk/Absorption/Float/Equalize						
Grid - Battery Charging Voltage (TUB) Default mode	Boost	14.4V±0.2V (Each Battery)						13.8V-15V
	Float	13.8V±0.2V (Each Battery)						13V-14.2V
Grid - Battery Charging Voltage (SMF)	Boost	14.2V ±0.2V (Each Battery)						13.5V-14.2V
	Float	13.8V ±0.2V (Each Battery)						13.5V-14.2V
Grid-Batt. Chg. Volt. Equalize		After 30 Days						NA
Grid-Batt. Chg. Current	Normal	15A ±2A						1A-20A
	Boost	18A ±2A						
Grid Low Cut Voltage		170V±10V						
Grid Low Cut Recovery	IT MODE ENABLE	180V ± 10V						
Grid High Cut Voltage		265V ± 10V						
Grid High Cut Recovery		255V ± 10V						
Grid Low Cut Voltage	IT MODE DISABLE	100V ± 10V						
Grid Low Cut Recovery		110V ± 10V						
Grid High Cut Voltage		290V ± 10V						
Grid High Cut Recovery		280V ± 10V						
DG Mode	ENABLE/DISABLE	Disable						
Change Over (Batt. to Mains)	IT MODE ENABLE/DISABLE	<5ms						
Change Over (Mains to Batt.)		<12ms						
Parameters (Battery Mode)								
Output Phase		1Phase, 3Wire						
Output Waveform		Sinewave						
Nominal Output Voltage		220V±8%						
Nominal Frequency		50Hz ±1%						
Maximum Output Current ( ±0.2A)		2.1A	2.9A	4.3A	5.6A	10A	17A	
Batt. Low Buzzer		10.8V±0.2V (Each Battery )						Batt LC+0.3V
Batt. Low Cut		10.5V±0.2V (Each Battery )						10V-11.5V
Batt. High Cut		16.5V±0.2V (Each Battery )						16.5V-17.5V
Typical Efficiency		≥80%			≥82%			
Voltage Harmonic		<3% (Linear Load)						
Over Load Capacity	IT MODE DISABLE	>110% 3-Times Auto Reset with 30Sec. Delay and 4th Time Shut Down						
	IT MODE ENABLE	>110% Shut down after 30Sec. Delay (1st time)"						
		>150% Output goes down						
Protection		Overload, Battery Low, Battery High, Output Short Ckt, Battery Reverse, Over Heat @90°C ± 10°C , Over/Under frequency, I/P HV, I/P LV, Lightening.						
LED Indication		System ON, (IT Mode, SMF/TUB, Boost Charging, DG Mode) Enable/Disable						
Switches		Reset for System ON/OFF, UP, Down, Back, Enter (for LCD Configuration)						
Display		Battery Voltage, Charging Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load %, Battery Graph, Overheat, BLK/ABS/FLT.						
Parameters (Environment)								
Operating Temperature		0-50°C						
Cooling		Fan						
Max. Relative Humidity @ 25°C (non condensing)		95%						
Noise @ 1meter		50dB						
Standard Compliance		IP20						
System Dimension (LxWxH in mm)		260*306*116	260*306*172	266*306*214	311*306*298	336*306*388		

\*Specification are subject to change without prior notice due to constant improvement in design & technology.

