



Aviator - Smart Inverter

Commercial

- DSPic based design Pure Sine Wave Output.
- Configurable charging voltage and current.
- Display - LCD 16x2.
- SCR Based change over.
- Four stage battery charging profile.
- Tubular/SMF/Flooded Battery profile.
- Fast charging profile.
- Frequency Available in :- 50Hz
- Input range selection.
- Maintain battery health for longer life.
- Compatible with Generator as an input source.
- Compatible with IT load.
- Easy Installation and Low Maintenance.
- Robust Design - 20Year.

TECHNICAL SPECIFICATION

PARAMETERS		RATING	
Model Name	EHU/7500/120V		EHU/10000/120V
Operating DC Voltage	120V		
Control	DSPic Controller with PWM		
INPUT PARAMETERS		CONFIGURABLE	DEFAULT
Input AC	Single Phase 3 wire		
Nominal AC Input	220V / 50.0Hz		
Grid Low Cut Voltage (IT Mode-Enable/Disable)	NA/120-200		175/120
Grid High Cut Voltage (IT Mode-Enable/Disable)	NA/245-280		260/280
AC Input Freq. Range	47 to 53Hz		
Settable Battery Type	SMF / Tubular / Flooded		Tubular
SMF / Flooded / Tubular	Boost	13.7 / 14.3 / 14.5	
	Float	13.5 / 13.5 / 13.7	
	Absorption	Boost Voltage @20% of Charging Current till 2 Minutes After that Maintain @ Float Voltage	
Boost Chg. Current Disable	3 to 15A Settable		15A
Boost Chg. Current Enable	150% of Set Charging Current or Max. 20A		
Switching Device for Chg. / Inv	IGBT		
Lightening Protection	Yes (MOV & Fuse)		
OUTPUT PARAMETERS			
Output wave form	Pure Sine wave		
Output Voltage	By default 220V±1%, Sattable Voltage 220V/230V/240V		
Output Frequency	50Hz±0.5%		
Full Load Current	27.2A	36.3A	
Batt. Low Cut	10V-11.7V (Settable), 10.5V (Default)		
Batt. Low Cut Buzzer	Set value of batt. low cut off +0.2V		
Batt. High Cut	Auto Sattable		
Changeover time(Inv. toGrid)	<1ms		
Changeover time(Grid toInv.)	<11ms		
Overload Capacity (It Load Disable)	101-120% @1 Minute (3 times retry), 121-150% @30sec (3 times retry), 151-200% @2sec, 201-300% @ 1sec, 301-400% @ 250mS, >400 @ 20mS		
Overload Capacity (It Load Enable)	101-110% @ 10 minutes, 111-120% @ 2 minuets, 121-150% @30sec, 151-200% @ 2sec, 201-300% @ 1sec, 301-400% @ 250ms, >400 @ 20mS		
Peak Efficiency (DC to AC)	88%		
THDv @ 100% Linear Load	<3%		
DISPLAY, ALARM AND PROTECTION			
Settable Parameters from Display	Battery type, boost charging, IT Load, input source type (grid/Genset), charging current, grid input voltage range, battery low cut.		
Display Parameters	Batt. voltage, charging current, output voltage, output frequency, output load%, grid voltage & frequency, grid & inverter status.		
Indication	System on, inverter on charging on, overload, overheat, mains low-high, batt. low-high, fault type		
Protection	Overload, Batt. Low/high, Output Short Circuit, Output Low, Overheat, Grid High-low, Grid Freq. Under/Over		
MACHENICLE AND ENVIROMENTLE			
Cooling	Temperature based fan ON/OFF		
Operating Temperature	0-50°C		
Max Relative Humidity @ 25°C (non Condensing)	95%		
Noise (greater than 1m radius from system)	<50dB		
Dimension (LxWxH)Inch	24x13x23	24x13x23	

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

