

## INTELLIGENT PURE SIN WAVE INVERTER ETHA SERIES

MODEL		ETAH-750W			ETAH-1500W			ETAH-3000W		
COLOUR CODE		GREEN			ORANGE			RED		
INPUT DC VOLTAGE		12V	24V	48V	12V	24V	48V	12V	24V	48V
MAXIMUM OUTPUT POWER		750W			1500W			3000W		
MAXIMUM OUTPUT CURRENT		3.5A			7A			13.5A		
MAXIMUM CONTINUE OUTPUT POWER		660W	750W	750W	1100W	1500W	1500W	1800	3000W	3000W
MAXIMUM CONTINUE OUTPUT CURRENT		3 A	3.5 A	3.5 A	5 A	7 A	7 A	8.2 A	12 A	13.5 A
OUTPUT SURGE POWER		1320W			2640W			5280W		
OUTPUT SURGE CURRENT		6 A			12 A			24 A		
NO LOAD INPUT CURRENNT		800 ma	400 ma	200 ma	1 A	500 ma	300 ma	1.3 A	700 ma	400 ma
EFFICIENCY (η)		85%	87%	88%	85%	93%	94%	87%	88%	90%
OUTPUT WAVE FORM		Sinusoidal								
OUTPUT FREQUENCY		50 HZ ±0.5HZ								
TOTAL HARMONY DISTORTION AT LINEAR LOAD		THD<3%								
OUTPUT AC VOLTAGE		220 VAC								
OUTPUT AC VOLTAGE REGULATION		±3%								
MAXIMUM OUTPUT VOLTAGE		LESS THAN 240 VAC								
INPUT DC VOLTAGE RANGE	12V	10.5 VDC ~16 VDC								
	24V	21 VDC ~32 VDC								
	48V	42 VDC ~63 VDC								
STORAGE TEMPERATURE		-10℃ ~ +65℃								
HUMIDITY		20% ~ 90% RH								
MATERIAL OF CASE		Aluminium								
CASE DEMONTIONS		250*210*110(mm)			340*210*110(mm)			500*210*110(mm)		
DEVICE WEIGHT		2.5 (kg)			3.5 (kg)			5.5 (kg)		
COOLING METHODE		Device has a smart fan that turns on above 40 degrees Celsius								

<b>APPLICATIONS</b>	- Using in solar systems – Using as a Emergency power systems - Suitable for sensitive systems (telecommunication, medical and data centers) - Can be used on a variety of light and heavy vehicles and camper cars		
<b>START METHODE</b>	Intelligent and soft start		
<b>DESPAY TYPE</b>	LCD		
<b>DISPLAYED INFORMATION</b>	Input voltage – output voltage – output current – device temperature – messages and alarms		
<b>DISPLAYED ALARMS</b>	Over temperature Announce unallowable Input voltage range Announce reverse battery connection at input Announce short connection at output of device Announce over load and current at output of device Announce fan fail (drop speed or disconnection of fan) Announce unallowable output voltage		
<b>ALARM TYPES</b>	Voice – Written - optical		
<b>PROTECTIONS</b>	description	Display type	Protection type
	If the input cable is connected in reverse, the red LED turns on and with the correct connection of the input polarity, the LED turns off and the device is ready to work.	LED RED	Battery reverse (fuse less & Reversible)
	If the input voltage is out of range, the device switches off, and if the input voltage returns to the allowable range, the device turns on automatically.	LCD , BUZZER	Input voltage range is unallowable (Reversible)
	If the battery is fully discharged and reaches the dead voltage, the device will turn off and after charging the batteries up to 80%, the device will turn on automatically again.	----	Avoid deep discharge of the battery And its breakdown (Reversible)
	If the output voltage is shorted, the device will turn off.	LCD , BUZZER	Output device short circuit (fuse less )
	If output current goes over the allowable range, device automatically shot down	LCD , BUZZER	Output Over load (Reversible)
	If for any reason the output voltage exceeds 240 VAC, the device is switched off to protect the load.	LCD , BUZZER	Output voltage out of range (Reversible)

	When the temperature of the device increases and the temperature reaches 65 degrees Celsius, the device is turned off and after cooling by the fans to 40 degrees Celsius, while displaying the temperature on the display, the device automatically turns on again.	LCD , BUZZER	Out of range of device temperature (Reversible)
	If any of fans speed drop or failure, The device displays message fan is failed at the start up the device.	LCD , BUZZER	Fan fail
INPUT AND OUTPUT PORTS	<ul style="list-style-type: none"><li>- Red and black terminal for DC input on rear panel<ul style="list-style-type: none"><li>- One 15A AC Power outlet on front panel</li></ul></li><li>- Two usb port on front panel for mobile charging and etc.</li></ul>		