

## Off-grid inverter



## **Introduction:**

ESI-3KVA series inverter adopts digital intelligent control and complete high-frequency topology featuring stable performance and excellent resitance to jam. It's output voltage is 110V/60HZ, 220V/50HZ and rated power is 3KVA. This product is widely used in these solar system for telecommunication, traffic, house, island, border defense, countryside, pastoral areas etc.

## **Performance:**

- 1. Output pure sine wave, small waveform distortion rate.
- 2. Soft start function and high efficiency.
- 3. Strong load adaptability and stability.
- 4. Internal fuse against wrong connection for reliability and safety.
- 5. Protection against overcurrent and short-circuit, preventing product from burning.
- 6. Low voltage protection for battery input, preventing battery from over-discharging.
- 7. Input side DC and output side AC isolated against electric shock for more safety.
- 8. All-round protection and alarm function.
- 9. Complete high-frequency transform, small volume, light weight.
- 10. Main phase locked, bypass switch and on-grid are available (compatiable UPS function).

## **Data sheet:**

Model	3000VA off-grid inverter		
Series	EISH-24-110-3KW EISH-36-110-3KW EISH-48-110-3KW		
	EISH-24-220-3KW EISH-36-220-1KW EISH-48-220-3KW		

TEL: 025-58875561/58875563



Input		24VDC	36VDC	48VDC
	Work voltage range	20~30VDC	32~42VDC	40~60VDC
	No-load input current	≦1.0A	≦1.0A	≦1.0A
	Low voltage alarm range	20.5~21.5VDC	30.5~31.5VDC	40.5~42.5VDC
	Low voltage close range	19.5~20.5VDC	29.5~30.5VDC	39~41VDC
	High-voltage close range	29.5~31VDC	41.5~42.5VDC	59~62VDC

Output		110VAC/60H2	Z	22	0VAC/50HZ
	Rated power	3KVA		3KVA	
	Momentary power	6KVA		6KVA	
	Output waveform	Pure sine wave		Pure sine wave	
	Distoration rate	<b>≦</b> 3%		≦3%	
	Output voltage range	110~120VAC		220~240VAC	
	Output frequency range	59.5~60.5HZ		49.5~50.5HZ	
	Input stage reverse	FUSE		FUSE	
	Output stage short circuit	YES		YES	
	Output overload range	110%∼120% of rated power		110%∼120% of rated power	
	Product over temperature	75∼85°C		75∼85℃	
Others	Input and output grade	Completely isolated		Completely isolated	
	Did di da	Input to output stage: 1.2KV/5mA 60S		Input to output stage: 1.2KV/5mA 60S	
	Dielectric strength	Output to shell: 1.2KV/5mA 60S		Output to shell: 1.2KV/5mA 60S	
	Full load work efficiency	≥90%	≧	91%	≥92%
	Working temperature of whole machine	Lower than environmental temperature +40°C		Lower than environmental temperature +40°C	
	Display mode	LCD display		LCD display	
	On/off mode	Button/Manual switch (optional)		Button/Manual switch (optional)	
	Cooling mode	Automatic thermostat fan cooling		Automatic thermostat fan cooling	
Environm ent	Work temperature	-10∼+50°C			
Standard Comm. method		RS485		RS485	
EMC		EN61000-3-2, EN50081		EN61000-3-2, EN50081	



Protection degree	IP20	IP20