

Off-grid inverter



Introduction:

ESI-5KVA series inverter adopts digital intelligent control and complete high-frequency topology featuring stable performance and excellent resistance to jam. Its output voltage is 110V/60HZ, 220V/50HZ and rated power is 5KVA. 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 (compatible UPS function).

Data sheet:

Model	5000VA off-grid inverter			
Series	EISH-24-110-5KW EISH-36-110-5KW EISH-48-110-5KW EISH-24-220-5KW EISH-36-220-5KW EISH-48-220-5KW			
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 off range	19.5~20.5VDC	29.5~30.5VDC	39~41VDC
	High-voltage off range	29.5~31VDC	41.5~42.5VDC	59~62VDC

Output Protection		110VAC/60HZ	220VAC/50HZ	
	Rated power	5KVA	5KVA	
	Momentary power	10KVA	10KVA	
	Output waveform	Pure sine wave	Pure sine wave	
	Distortion rate	≅ 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℃	75~85℃	
Others	Input and output grade	Completely isolated	Completely isolated	
	Dielectric strength	Input to output stage: 1.2KV/5mA 60S	Input to output stage: 1.2KV/5mA 60S	
		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℃	Lower than environmental temperature +40℃	
	Display mode	Touch screen or LCD instruction(optional)	Touch screen or LCD instruction(optional)	
	On/off mode	Button/Manual switch (optional)	Button/Manual switch (optional)	
	Cooling mode	Automatic thermostat fan cooling	Automatic thermostat fan cooling	
Environment	Work temperature	-10~+50℃		
Standard Comm. method		RS485	RS485	

EMC	EN61000-3-2, EN50081	EN61000-3-2, EN50081
Protection degree	IP20	IP20