

Off-grid inverter



Introduction:

ESI-1KVA 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 1KVA. 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.

Data sheet:

Model	1000VA off-grid inverter				
Series	EISH-12-110-1KW	EISH-24-110-1KW	EISH-36-110-1KW	EISH-48-110-1KW	
	EISH-12-220-1KW	EISH-24-220-1KW	EISH-36-220-1KW	EISH-48-220-1KW	
Input		12VDC	24VDC	36VDC	48VDC
	Work voltage range	11~15VDC	22~30VDC	32~42VDC	42~60VDC

	No-load input current	$\leq 1.0A$	$\leq 1.0A$	$\leq 1.0A$	$\leq 1.0A$
	Low voltage alarm range	10~11VDC	20.5~ 21.5VDC	30.5~ 31.5VDC	40.5~ 42.5VDC
	Low voltage close range	9.5~10.5VDC	19.5~ 20.5VDC	29.5~ 30.5VDC	39~41VDC
	High-voltage close range	15~16VDC	29.5~31VDC	41.5~ 42.5VDC	59~62VDC

Output protection		110VAC/60HZ		220VAC/50HZ	
	Rated power	1KVA		1KVA	
	Peak power	2KVA		2KVA	
	Output waveform	Pure sine wave		Pure sine wave	
	Distortion rate	$\leq 3\%$		$\leq 3\%$	
	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°C	
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: 2.2KV/5mA 60S	
	Full load work efficiency	$\geq 88\%$	$\geq 90\%$	$\geq 91\%$	$\geq 92\%$
	Working temperature of whole machine	Lower than environmental temperature +40°C		Lower than environmental temperature +40°C	
	Display mode	LED instruction (green indicates work, red indicates error)		LED instruction (green indicates work, red indicates error)	
	On/off mode	Manual I/O switch		Manual I/O switch	
	Cooling mode	Thermostat automatic fan cooling		Thermostat automatic fan cooling	
Environment	Work temperature	-10~+50°C			
Safety approval		UL、CE		CE、TUV、GS	

Electromagnetic compatibility	EN55022, EN55014	EN55022, EN55014
Protection degree	IP20	IP20