



Residential And Small Commercial Applications Grid Off Inverter

Basic Information

- Place of Origin: China
- Brand Name: TP
- Certification: CE
- Model Number: ESUN1t3
- Minimum Order Quantity: 50 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



SK-E-SUN 1KVA-3KVA Off Grid MPPT Solar Inverter

Product Specification


- Rated Power: 1000VA/850W (E-SUN 1KVA), 2000VA/1600W (E-SUN 2KVA), 3000VA/2700W (E-SUN 3KVA)
- Battery Voltage: 12VDC (E-SUN 1KVA/2KVA), 24VDC (E-SUN 3KVA)
- Maximum PV Array Power: 600W (E-SUN 1KVA), 2000W (E-SUN 2KVA), 3000W (E-SUN 3KVA)
- PV Input Voltage Range: 30-400VDC
- AC Input Voltage Range: 170-280VAC (UPS Mode), 90-280VAC (Appliances Mode)
- Transfer Time: 10ms (UPS Mode), 20ms (Appliances Mode)
- Highlight: **Residential grid off inverter,
1000VA grid off inverter,
850W off grid solar inverter with battery**


Product Description

Compact Off-Grid Inverters for Residential and Small Commercial Applications

MAIN FEATURES


 MPPT Solar Charge Controller Inside

 Wide PV Input Range 30-400Vdc

 Reliable quality, economic design

 Smart battery protection. Compatible with LiFePo4

 Configurable battery & AC/Solar priority via LCD setting

 Only 1pcs 36V solar panel can start solar inverter

Product Description:

The E-SUN Series (1KVA/2KVA/3KVA) is a pure sine wave solar inverter designed to provide reliable and efficient energy conversion with an integrated MPPT Solar Charge Controller. It is compatible with multiple battery types, including LiFePo4, making it ideal for solar energy systems. The inverter is equipped with a wide PV input range, smart battery protection, and configurable AC/Solar priority through the LCD setting. The compact design ensures easy installation and provides efficient energy management, suitable for residential or small commercial applications.

TECHNICALPARAMETER				
Model	SUNONE series	E-SUN 1KVA	E-SUN 2KVA	E-SUN 3KVA
The rated power		1000VA/850W	2000VA/1600W	3000VA/2700W
INPUT				
Voltage		230VAC		230VAC
Selectable Voltage Range		170-280VAC(UPS),90-280VAC(Appliances)		
Frequency Range		50Hz/60Hz(Auto sensing)		
OUTPUT				
AC Voltage Regulation(Batt.Model)		230VAC±5%		
Surge Power		1000VA	2000VA	6000VA
Power factor		0.9	0.8	0.9
Efficiency(Peak)		>94%	>90%	>90%
Transfer Time		10ms(UPS),20ms(Appliances)		
Wave form		Pure sine wave		
No load current		<28W	1.0A	
BATTERY				
Battery voltage		12VDC	12VDC	24VDC
Low battery alarming voltage		11.0VDC	11.0VDC	22.0VDC
Low battery cut off protection voltage		10.5VDC	10.5VDC	21VDC
Low battery recovery voltage		11.75VDC	11.75VDC	23.0VDC
Floating Charge Voltage		13.5VDC	13.5VDC	27VDC
Overcharge Protection		16.0VDC	16.0VDC	32VDC

MPPT SOLAR CHARGER &AC CHARGER			
Maximum PV Array Power	600W	2000W	3000W
MPPT RangeOperation Vol	20-150VDC	30-400VDC	30-400VDC
Best PV range	36-150V	120-400V	120-400V
Maximum PV Array Open Circuit Vol	150VDC	400VDC	400VDC
Number of MPPT trackers/Maxoutput current	80A	80A	80A
Maximum AC Charge Current	40A	60A	60A
Maximum Efficiency	98%	98%	98%
BEST PANEL CONFIGUTATION			
Maximum PV Array Power	600W	2000W	3000W
PHYSICAL			
Products Dimension,D*W*H(mm)	400mm*306mm*103mm	400mm*306mm*103mm	400mm*306mm*103mm
Packing size,D*W*H(mm)	460mm*391mm*174mm	460mm*391mm*174mm	460mm*391mm*174mm
Net Weight(kgs)	3KG	4.4KG	5.4KG
G.W.kg	4KG	5.1KG	6.1KG
Communication Interface	RS232/GPRS/Optional WIFI		
OPERATING ENVIRONMENT			
Humidity	5%to 95%RelativeHumidity(Non-condensing)		5%to 95%Relative Humidity (Non-condensing)
Operation Temperature	-10°C-50°C		-10°C-50°C

Application:

This inverter is perfect for off-grid solar systems, backup power supply for homes, and small commercial setups. It can also be used in areas with inconsistent grid power, offering seamless transfer between battery and grid modes. With its robust protection features, it ensures reliable operation even in challenging environments. Its compatibility with a single solar panel (36V) makes it ideal for small-scale solar installations.

Shipping Methods

Supports global air and sea shipping.

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