



Off Grid MPPT Solar Inverter



TECHNICAL PARAMETER

Model	E-SUN 1.2K	E-SUN 2K	E-SUN 3K
The rated power	1200VA/1200W	2000VA/1800W	3000VA/3000W
INPUT			
Voltage	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	2400VA	4000VA	6000VA
Power factor	1.0	0.9	1.0
Efficiency(Peak)	> 92.5%	> 94%	> 94%
Transfer Time	10ms (UPS), 20ms (Appliances)		
Wave form	Pure sine wave		
No Load Power Consumption	<23W	<35W	
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	11.5VDC	11.5VDC	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	800W	2000W	3000W
MPPT Range Operation Vol	20-100VDC	50-430VDC	50-430VDC
Maximum PV Array Open Circuit Vol.	120VDC	450VDC	450VDC
Number of MPPT trackers / Max output current	50A	80A	80A
Maxmum AC Charge Current	50A	60A	60A
Maximum Efficiency	98%	98%	98%
BEST PANEL CONFIGUTATION			
Maximum PV Array Power	800W	2000W	3000W
Best Panel configuration	600W 1PCS in 1 S	600W 2-4 PCS in 1 S	600W 2-5 PCS in 1 S
CHARACTERISTIC			
Display	LCD	LCD	LCD
Communication Interface	W/O	RS485(BMS) communication port	
Parallel Capabillty	W/O	W/O	W/O
PHYSICAL			
Packing size, D*W*H(mm)	347mm*247mm*103mm	473*391*174mm	473*391*174mm
N.W. kg	3.7kg	6.0kg	6.7kg
G.W. kg	4.2kg	6.5kg	7.2kg
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature Range	0°C to 55°C	0°C to 55°C	0°C to 55°C
Storage Temperature	-15°C-60°C	-15°C-60°C	-15°C-60°C

MAIN FEATURES

- MPPT Solar Charge Controller Inside
- Wide PV Input Range
- Reliable quality, economic design
- Smart battery protection. Compatible with LiFePO4
- Configurable battery & AC/Solar priority via LCD setting
- With BMS for lithium battery communication

Solar System Connection

