



On&Off Grid MPPT Solar Inverter



TECHNICAL PARAMETER

Model	SUNPOLO-6KW	SUNPOLO-12KW	SUNPOLO-14KW
The rated power	6000W	12000W(PV+BAT)	14000W(PV+BAT)
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%	230VAC ± 5%	230VAC ± 5%
Surge Power	12000VA	24000VA	28000VA
Power factor	1	1	1
Efficiency(Peak)	>94%	>94%	>94%
Transfer Time	10ms (UPS), 20ms (Appliances)	10ms (UPS), 20ms (Appliances)	10ms (UPS), 20ms (Appliances)
Wave form	Pure sine wave	Pure sine wave	Pure sine wave
No Load Power Consumption	<30W	<30W	<65W
BATTERY			
Battery voltage	48VDC	48VDC	48VDC
Low battery alarming voltage	44.0VDC	44.0VDC	44.0VDC
Low battery cut off protection voltage	42.0VDC	42.0VDC	42.0VDC
Low battery recovery voltage	46.0VDC	46.0VDC	46.0VDC
Floating Charge Voltage	56.0VDC	56.0VDC	56.0VDC
Overcharge Protection	64.0VDC	64.0VDC	64.0VDC
MPPT SOLAR CHARGER & AC CHARGER			
Maximum PV Array Power	9000W	15000W	18000W
MPPT Range Operation Vol	60-450VDC	60-450VDC	90-450VDC
Maximum PV Array Open Circuit Vol.	500VDC	500VDC	500VDC
Number of MPPT trackers / Max output current	120A	160A	250A
Maxmum AC Charge Current	120A	160A	210A
Maxmum Efficiency	98%	98%	98%
BEST PANEL CONFIGUTATION			
Maximum PV Array Power	9000W	15000W	18000W
Best Panel configuration	600W/16PCS/8S2P	550W/27PCS/9S3P	600W/28PCS/7S4P
CHARACTERISTIC			
Number of AC output	2		
Display	LCD&APP		
Communication Interface	RS485(BMS) communication port		
Parallel Capabillty	supports 6pcs		
PHYSICAL			
Packing size, D*W*H(mm)	500*415*186mm	595*515*210mm	725*515*195mm
N.W. kg	8Kg	15Kg	18.0Kg
G.W. kg	9.5Kg	16.5Kg	20.5Kg
Communication Interface	RS485(BMS) communication port		
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature Range	0°C to 55°C		
Storage Temperature	-15°C-60°C		

MAIN FEATURES

- Smart battery management. Compatible with different types of batteries: Lead acid, AGM, Gel, flooded, tubular, LiFePo4
- Two independent AC power sources (Utility + generator) connected and switched automatically (grid power get the priority)
- Built-in Remote WIFI for mobile monitoring(Android/IOS)
- Dual outputs (L1/L2) for smart load management for 6K/12K
- 120/160/250A MPPT solar charger inside, max pv input (2*27A,Max. 40A)
- Wide PV input range (Up to 500Vdc), support no battery working during the day time.
- On grid and off grid solar inverter, support self-consumption and feed into the grid.
- Max. PV input current 40A
- Built-in BMS
- Parallel up to 6 units

Solar System Connection

