

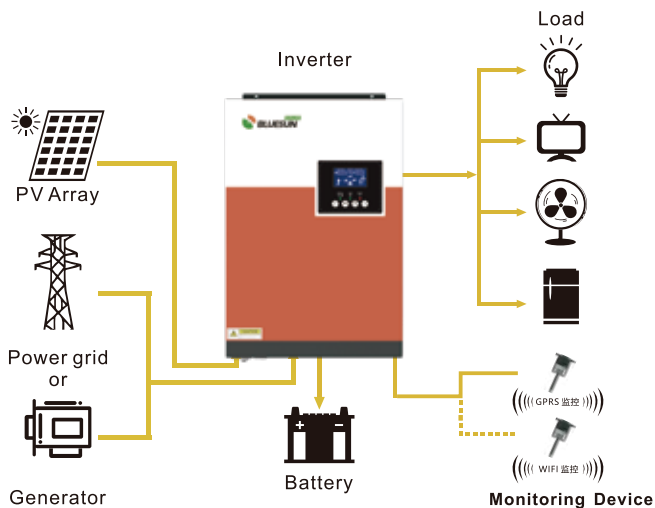
Hybrid Off Grid Solar Inverter 3.5KW/5.5KW



Performance Characteristics

- Supporting 24V Lithium Battery
- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Battery equalization function to optimize battery performance and extend lifecycle Inverter running without battery
- Built-in MPPT solar controller
- WiFi/GPRS remote monitoring RS485 communication for BMS(Optional)
- Detachable LCD(Optional)

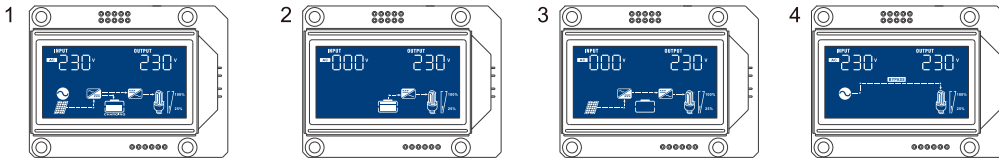
System Diagram



Product Overview

- This is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterrupted power support in portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Hybrid Off Grid Solar Inverter 3.5KW/5.5KW



1. With battery, solar and AC available
2. With battery, solar and AC not available
3. Without battery, solar available
4. Without battery, AC available

MODEL	BSM-3500LV-24		BSM-5500LV-48	
Capacity	3.5KVA/3.5KW		5.5KVA/5.5KW	
Parallel Capability	NO		NO	
INPUT				
Nominal Voltage	220VAC			
Acceptable Voltage Range	170-280VAC (For personal Computer);90-280VAC (For Home Appliances)			
Frequency	50/60 Hz (Auto sensing)			
OUTPUT				
Nominal Voltage	220/230VAC ± 5%			
Surge Power	7000VA		11000VA	
Frequency	50/60 Hz			
Waveform	Pure Sine wave			
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)			
Peak Efficiency (PV to INV)	96%			
Peak Efficiency (Battery to INV)	93%			
Overload Protection	5s@ >=150% load; 10s@ 110%~150% load			
Crest Factor	3:1			
Admissible Power Factor	0.6~1 (inductive or capacitive)			
BATTERY				
Battery Voltage	24VDC		48VDC	
Floating Charge Voltage	27VDC		54VDC	
OverCharge Protection	33VDC		63VDC	
Charging Method	CC / CV			
Solar Charger & AC Charger				
Solar Charger TYPE	MPPT			
Max. PV Array Power	4000W		5500W	
Max. PV Array Open Circuit Voltage	500VDC			
PV Array MPPT Voltage Range	120VDC ~450VDC			
Max. Solar Input Current	15A		18A	
Max. Solar Charge Current	100A		100A	
Max. AC Charge Current	60A		60A	
Max. Charge Current	100A		100A	
PHYSICAL				
Dimensions, D x W x H(mm)	482x290x113			
Package Dimensions, D x W x H(mm)	565x380x190			
Net Weight (Kgs)	9		10	
Communication Interface	USB /RS232/Dry-contact			
ENVIRONMENT				
Operating Temperature Range	-10°C to 50°C			
Storage temperature	-15°C ~ 60°C			
Humidity	5% to 95% Relative Humidity(Non-condensing)			

Product specifications are subject to change without further notice.



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