

# All-in-one Solar Charge Inverter

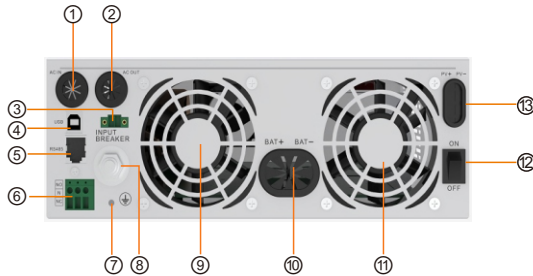
BSM-3500LV-24DA (PV : 500V ; AC : 220/230V)



## Performance characteristics

- Load friendly: Stable sine wave AC output via SPWM modulation
- Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.
- Dual LFP battery activation method: PV&mains
- Uninterrupted power supply: simultaneous connection to utility grid/generator and PV
- Intelligent programming: the priority of the output from different energy sources can be set
- High energy efficiency: up to 99.9% MPPT capture efficiency
- Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage
- Power saving: power saving mode automatically reduces power consumption at zero-load
- Efficient heat dissipation: via intelligent adjustable speed fans
- Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on.
- under-voltage and over-voltage protection and reverse polarity protection.

## Product characteristics



①	AC Input Port	⑨	Cooling Fan
②	AC Output Port	⑩	Battery Port
③	CAN Communication Port	⑪	Cooling Fan
④	USB Communication Port	⑫	ON/OFF Rocker Switch
⑤	RS485 Communication Port	⑬	PV Input Port
⑥	Dry Contact Port	⑭	Light Touch Button
⑦	Grounding Screw Hole	⑮	Indicator Light
⑧	Overload Protector	⑯	LCD Screen

## Parameters

Model	BSM-3500LV-24DA	Adjustable
<b>Battery Input</b>		
Battery type	Sealed, Flood, GEL, LFP, Ternary	√
Rated Battery Input Voltage	24V ( Minimum Startup Voltage 22V)	
Hybrid Charging Maximum Charging Current	80A	√
Battery Voltage Range	20Vdc~33Vdc ± 0.3Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)	√
<b>Solar Input</b>		
Maximum PV Open-circuit Voltage	500Vdc	
PV Working Voltage Range	120-500Vdc	
MPPT Voltage Range	120-450Vdc	
Maximum PV Input Current	15A	
Maximum PV Input Power	4000W	
Maximum PV Charging Current	80A	√
<b>AC Input(generator/grid)</b>		
Mains Maximum Charging Current	80A	√
Rated Input Voltage	220/230Vac	
Input Voltage Range	UPS Mains Mode : (170Vac~280Vac)±2% APL Generator Mode : (90Vac-280Vac)±2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	30A	
<b>AC Output</b>		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage (Vac)	230Vac	√
Rated Output Power (VA)	3500W	
Rated Output Power(W)	3500W	
Peak Power	6000VA	
On-load Motor Capacity	2HP	
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz	√
Maximum Efficiency	>92%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode : ≤25W (Manual Setup )	
<b>General</b>		
Working Temperature Range	-10°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	5% to 95%(Conformal Coating Protection)	
Dimensions	378mm*280mm*103mm	
Weight (KG)	7.4	