



BSED5000

HYBRID INVERTER

Single Phase & Dual MPPT BSED5000

Application: Residential Use



Higher Efficiency

- Maximum efficiency: 97.8%
- Self-learning MPPT Technology
- Ultra-Wide MPPT Voltage Range: 100V to 535V



Reliable and Safe

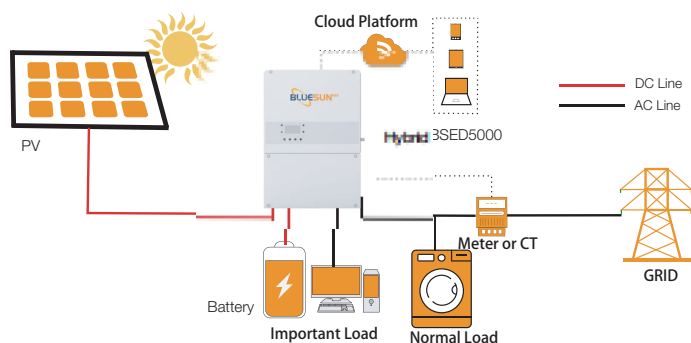
- Designed for North American users:
maximized-consumption,
backup power and load-shifting
- Switch between on and off grid within 10 ms
- IP65 enclosure for outdoor and indoor installation
- Arc fault detection for protection



Smarter

- Multiple communication methods:
WiFi/GPRS/RS485
- Remote configuration and upgrade are available

Product Topology



Application Scenario



Villa



Communication
base station



Nomadic area



Farm



Household



Field
power supply



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Model	BS5000
PV Input	
Max Input Voltage	550Vdc
Min. Input Voltage/Initial Feeding Voltage	100Vdc/150Vdc
MPPT Range	100Vdc-535Vdc
Range of PV Voltage Full Output	255Vdc-500Vdc
Max PV Input Current	11Adc
Max Input Short Circuit Current	13.5A
No. of MPPT/Strings Per MPPT	2/1
Max Input Power Per MPPT	2800W
Max. PV Input Power	5600W
Grid Terminal Parameters	
Nominal AC Output Voltage	240Vac
Nominal AC Output Frequency	50Hz/60Hz
Operating Frequency Range	180Vac – 278Vac
Nominal AC Output Current	20.8Aac
Max. Continuous AC Output Current	22Aac
Max AC Output Over Current Protection	45A
Nominal AC Output Power	5000VA
Max. Continuous AC Output Power	5000VA
Power Factors	>0.99
AC Output Parameters	
Nominal AC Output Voltage	240Vac
Frequency	50/60Hz
Max AC Output Current	20.8Aac
Max. Continuous AC Output Power	5000VA
Battery Terminal Parameters	
Battery Type	Li-on
Nominal Voltage	48Vdc
Range of DC Charging Voltage	42Vdc-58Vdc
Max. Charging Current	80Adc
Max. Charging Power	4200W
Max. Discharging Current	100Adc
Max. Discharging Power	5000W
General Parameters	
Storage Temperature Range	-30°C to +60°C
Operation Temperature Range	-20°C to +60°C
BMS Communication Port	CAN/RS485
Operating Relative Humidity	0~95%
Max. Operating Altitude	4000m
Noise	< 25 dB
Dimensions (W*H*D)	445mm*630mm*215mm
Weight	30kg
Cooling Method	Natural Convection
Installation	Wall-mounted
Certifications	
Safety Standard	UL 1741, UL 1699B, UL 1998, UL 991 CSA C22.2 No. 107.1-16
Grid Code	IEEE 1547-2003 (R2008), IEEE1547.1-2005 (R2011)
Communication Port	WIFI



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