



All-In-One

Stacked Off-Grid Energy Storage System

BR-S51100



Universal Wheel
Wheel design, easy to move



Safer to Use
High-density LiFePO4 battery



Long Battery Life
6000 cycles life (DoD 80%)



Super Silent
Noise less than 60 decibels



Stable & Reliable
Advanced BMS management



Smart Charging
Avoid overcharging & Extending battery life

Yangzhou Bright Solar Solutions Co., Ltd.

UN,NGO,WB Supplier And ISO9001,ISO14001,ISO45001 Manufacturer

Model**BR-S 51100****Basic Information**

Single Module Capacity	5.12kWh			
Module Number	1	2	3	4
Rated Capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Nominal Voltage	51.2V			
Working Voltage	44V-58.4V			
Nominal Discharge Current	100A	200A	300A	400A
Nominal Charging Current	50A	100A	150A	200A
Recommended Discharge Level	80% DoD			
Humidity	20%-60%			
Installation Method	Stacked mode			
Protection Rating	IP20			
Communication Protocol	CAN/RS485/RS232 (WIFI optional)			
Dimension	500*440*200mm	700*440*200mm	900*440*200mm	1100*440*200mm
Battery Net Weight	49kg	98kg	147kg	196kg
Cell Type	LFP			
Battery Rated Input Voltage	48Vdc			
Hybrid Max. Charging Current	80A			
Battery Pack Voltage Range	40Vdc-60Vdc			

Model**BRY5000 (Inverter)****PV Input Parameters**

Max. PV Open Circuit Voltage	500Vdc
PV Working Voltage Range	120V-500Vdc
MPPT Voltage Range	120V-450Vdc
Max. PV Input Current	22A
Max. PV Input Power	5500W
Max. PV Charging Current	80A

AC Parameters (Grid-connected Side)

Max. Charging Current	60A
Rated Input Voltage	220V/230Vac
Input Voltage Range	170Vac-280Vac
Frequency	50Hz/60Hz
Charging Efficiency (bypass and inverter)	>95%
Switching Time	10ms
Max. Bypass Overload Current	40A

AC Output Parameters (Grid-connected Side)

Output Voltage Waveform	Pure Sine Wave
Rated Output Voltage	230VAC±5%
Rated Output Power	5000W
Peak Power	10000VA