

# RESIDENTIAL ENERGY STORAGE SYSTEM

Low Voltage & Stackable

RG-BN SERIES



### Product introduction:

The BN stacked lithium energy storage battery use long working life LiFePO4 cell, high performance BMS to protect and manage the battery system. The max parallel is 15pcs, free combination for the capacity and meet all kinds of demand for home/industry

- ※ Free combination, Stacked design, More beautiful/convenient
- ※ Max parallel is 15pcs with large capacity
- ※ Move freely with pulley



### Inverter Products Specification:

Rated Power		RG-BN5KW/48V
INPUT		48VDC
Voltage		230VAC
Selectable Voltage Range		170-280VAC(For personal computers);90-280VAC(For home appliances)
Frequency Range		50Hz/60Hz(Auto sensing)
OUTPUT		
		5500W
AC Voltage Regulation(Battery.Mode)		220V/230V/240VAC
Surge Power		11000W
Efficiency(Peak)		Up to 93.5%
Transfer Time		10ms (For personal computers)
Waveform		Pure sine wave
BATTERY		
Battery Voltage		48VDC
Floating Charge Voltage		54VDC
Overcharge Protection		63VDC
Solar Charger & AC charger		
Maximum PV Array Open Circuit Voltage		450VDC
Maximum PV Array Power		6000W
MPPT Range @ Operating Voltage		120-450VDC
Maximum Solar Charger Current		160A
Maximum AC Charger Current		60A
Maximum Charger Current		100A
ENVIRONMENT		
Humidity		5% to 95% Relative Humidity(Non-condensing)
Operating Temperature		-10°C to 50°C
Storage Temperature		-15°C to 60°C

### Battery Products Specification:

Model	RG-BN5KW/100AH			
Single module capacity	5.12KWH			
Module number	2PCS	3PCS	4PCS	5PCS
Total capacity	10.24KWH	15.36KWH	20.48KWH	25.6KWH
Standard voltage	51.2V			
Working voltage	43.2V-57.6V			
Standard discharge current	200A	300A	400A	500A
Standard charge current	100A	150A	200A	250A
Suggested DOD	80%			
Humidity	20%-60%			
Installation	Stacked			
IP rating	IP20			
Communication	CAN/RS485/RS232(WiFi/bluetooth/4G optional)			
Environmental Humidity	0-90%RH (No condensation)			
Cycle Life	≥6000 Cycles@80%DOD/25/0.5C,60%EOL			
Product size	610*430*920Hmm			