

# BIENESOL



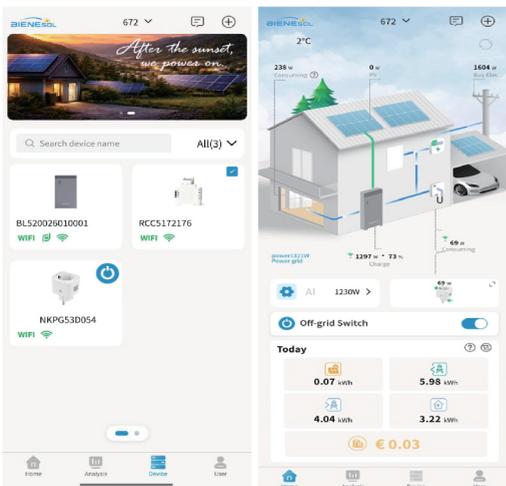
Built-in Wifi, Bluetooth,  
APP Remote monitoring



Plug & Play,  
Easy Installation



One stop service for balcony solar energy system.  
Green energy, reliable energy storage and energy self sufficiency.



Advanced System  
Monitoring App

## CUBE SERIES

### Cube-5200-800

ALL-IN-ONE Balcony ENERGY STORAGE SYSTEM  
ALL-IN-ONE Bidirectional Hybrid ESS



**800W**  
Grid Power

**2500W**  
Off-Grid Power

**5120Wh**  
Large Battery Cube

**EV-Grade Battery**  
3 layers Protection

**4 MPPTs**  
400~650W\*8pcs

**Parallel connection**  
2/2/2/2, support 8 panels

**-20°C~+60°C**  
Battery heating film

**6000 Cycles**  
LFP Battery

## TECHNICAL SPECIFICATIONS

Cube-5200-800

	PV Side	AC Port (On-grid)	AC Port (Off-grid)
Recommended Module Power (Wp)	300 - 650W	-	-
Max. PV Input Power (W)	2600W	-	-
Startup Voltage @Rated condition (V)	22V	-	-
Operating Voltage Range per Input (V)	16 - 60V	-	-
Max. Input Voltage per Input (V)	60V	-	-
Max. Input Current per Input (A)	16A	-	-
Number of MPPTs	4	-	-
Number of PV Modules	2+2+2+2, 8pcs	≤800W※	≤2500W
Nominal AC Output power (VA)	-	≤2500W	-
Communication input power	-	220/230/240V,L/N/PE, 50Hz/60Hz	-
AC Rated Output Voltage (V)	-	3.5A	-
Max. AC Output Current (A)	-	>0.99 default, 0.8 leading -0.8 lagging	-
Power Factor	-	-	11A
Max. AC Output Current (A)	-	-	220/230/240V,L/N/PE, 50Hz/60Hz
Nominal AC Voltage (V)	-	-	-

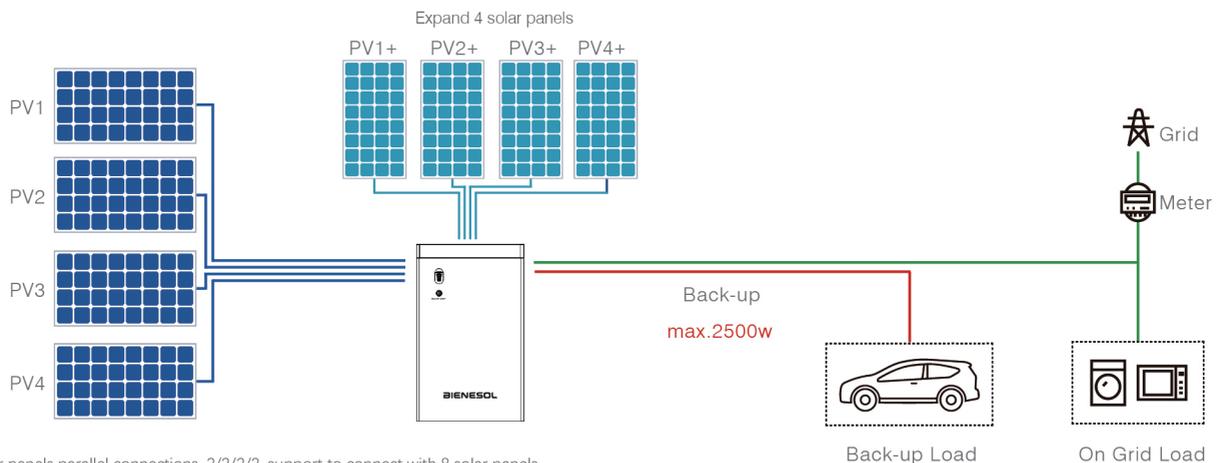
## BATTERY TECHNICAL SPECIFICATION

Battery Type	LiFePO <sub>4</sub>
Battery Rated Voltage	51.2V
Maximum Capacity	5120Wh
Working Voltage Range	41.6V-58.4V
Max. Standard Current	100A
Max. Discharge Current	100A
Charging temperature	0-55℃
Discharge template	-20-60℃

## General Data

Dimensions (WxHxD mm)	630*380*251mm
Weight (kg)	62Kg
Communication	Wi-Fi/Bluetooth
Extra Communication Port	RS485
Smart Meter Whitelist	Shelly, Everhome, Tibber, MYPV, HomeWizard, Powerfox, IOmeter
Display	SOC Light
Ingress Protection	IP65
Environmental Suitability	Indoor or Outdoor use
Type of Isolation	Reinforced insulation
Relative Humidity	0-95%, Non condensing
Cooling	Natural cooling
Protection Level	Class I
Over-voltage Category	PV II AC III
Operating Ambient Temperature Range	-20 ~ +60℃
Max. Operating Altitude [m]	≤2000m
Warranty	10 years or 6000 life cycles ( 25℃)
Certification	UN38.3, IEC 62619/IEC 62109/IEC 62040/IEC61000/IEC62920/IEC62311, RED,VDE, EN 50549

\* On-grid AC Output default setting 800W (comply with legal requirement), adjustable up to 2500W.



※ 2 solar panels parallel connections, 2/2/2/2, support to connect with 8 solar panels