

# Residential Energy Storage System (Low Voltage & Stackable)

RS-LBS51.2-300-W



## High Efficiency

Max. efficiency 94%



## Easy installation

50 Kg Battery modules



## Safety and Reliability

Lithium-ion phosphate  
battery cells



## System integration

Integrated design, plug and  
play, no compatibility issues

## Product Information



Scalable from 5 kWh to 60 kWh



Self-Consumption Optimization



Maximum flexibility for any applications with up to 12  
modules connected in parallel



Integrated with inverter to avoid the compatibility  
problem



LFP battery, safety and long cycle life



Stackable design, effortlessly installation



Capable of High-Powered Emergency-Backup  
and Off-Grid Function

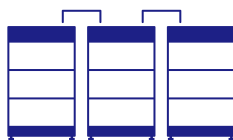
## ⚡ Battery Module

- 5.12 kWh per Module
- Modular and Stack Installation Design to simplify the maintenance
- Connect up to 12 module in parallel for a maximum size of 60 kWh

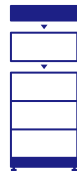
## Flexible, Efficient, Simple



**Plug Connection**  
No Additional Wiring Required



**5-60KWH**  
Tailored Sizing for Each Application



**Extend Anytime**  
Easily Adapts to New Requirements



**High Power**  
Power for Every Application

## Technical Parameters

Inverter	LBS 5.6KW Inverter-W	
Rated Power	5600W	
Maximum PV Array Open Circuit voltage	500VDC	
MPPT Voltage Range	120-450V	
Nomial Output Voltage	220/230/240VAC	
Output Voltage Range	184-265VAC	
Nominal Output Current	25.5A/24.3A/23.3A	
Efficiency	Up to 93.5%	
Grid Output Voltage Range	120-280VAC	
Grid Frequency	50/60Hz(Auto Sensing)	
Maximum AC Charge Current	120A	
Maximum Solar Charge Current	120A	
Nominal DC Voltage	48VDC	
Battery Model	LBS51.2-300S-W	
Combination Method	16S1P	
Rated Capacity	Typical	300Ah
	Minimum	296Ah
Rated Voltage	51.2V	
Limited Discharge Voltage	43.2V	
Limited Charge Voltage	57.6V	
Internal Resistance(single battery pack)	≤20mΩ	
Max Continuous Charging Current	100A	
Max Continuous Discharging Current	100A	
Operation Temperature Range	Charge:0~50℃/ Discharge: -10~50℃	
Storage Temperature Range	0~50℃,Recommend: ≤60±25%RH storage humidity	
Single Module Size/weight	680*429*215mm /50Kg±1Kg	
Overall Size/weight	680*429*980mm /185Kg±1Kg	