



Low Voltage Battery Datasheet

- LB-5S-G1**
- LB-10S-G1**
- LB-15S-G1**
- LB-20S-G1**

Description

The LB-(5-20)S-G1 series is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience.

It is designed with an IP65 rating for more flexible and easier installation.

It has superior performance with a capacity ranging from 5.12 kWh to 20.48 kWh for a single tower, which can meet residential electricity demand.

Features

- 01** LFP with improved safety design
- 02** Suitable for indoor/outdoor installation with IP65 design
- 03** Quick connector design saves installation time
- 04** Stackable design without wiring
- 05** Flexible capacity options from 5.12 kWh to 20.48 kWh
- 06** Module level fire protection

Technical Specifications

Model	LB-5S-G1	LB-10S-G1	LB-15S-G1	LB-20S-G1
System Data				
Battery type	LiFePO ₄			
Rated capacity (Ah)	100	200	300	400
Number of modules	1	2	3	4
Total energy (kWh)	5.12	10.24	15.36	20.48
Rated voltage (V)	51.2			
Voltage range (V)	44.8-57.6			
Rated charging/discharging current	0.5C			
Max. continuous charging/discharging current (A)	50	100	150	150
Max. charge/discharge power (kW)	2.56	5.12	7.68	7.68
Communication	CAN, RS485			
Recommended depth of discharge (DOD)	90%			
Protection				
Overvoltage and undervoltage protection	Integrated			
Overcurrent protection	Integrated			
Overtemperature and undertemperature protection	Integrated			
DC breaker	Integrated			
General				
Dimensions (W × H × D [mm]) ⁽¹⁾	665 × 503 × 200	665 × 770.7 × 200	665 × 1038.4 × 200	665 × 1306.1 × 200
Weight (kg) ⁽¹⁾	61.5	109.5	157.5	205.5
Installation environment	Indoor/Outdoor			
Charging temperature (°C)	0 to +50			
Discharging temperature (°C)	-10 to +50			
Protection degree	IP65			
Cooling	Natural convection			
Altitude (m)	≤2000			
Cycle life (25°C, 0.5C)	6000 Cycles, @90% DOD, 70% EOL			
Certification	IEC 62619, UN 38.3			
Warranty	10 Years			

*Parallel connection between battery towers is not supported.