LIVOLTEK

Low-Voltage Residential Battery

BLF-SR05/10/15/20/25/30/35

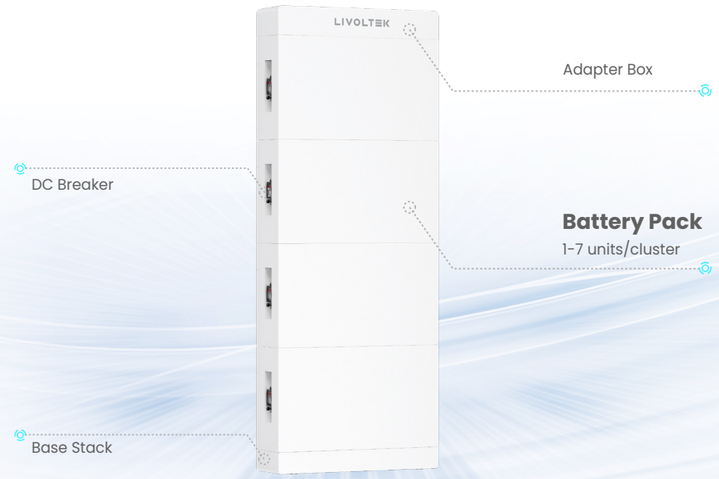
The BLF-SR05-35 battery is an advanced lithium iron phosphate (LFP) battery designed specifically for home energy storage. With a single pack capacity of 5.12kWh and 100Ah cells, it features high energy density and a stacked installation design. Leveraging the safe and durable LFP chemical properties and an intelligent battery manage ment system, it is easy to install and compatible with residential and commercial renewable energy systems, providing customers with efficient and stable energy storage solutions.

Product Benefits

- Modular stack design, easy to install and expand.
- Supports web/app remote data viewing and remote program upgrade.
- Cycle times exceed 6,000, significantly enhancing the full life cycle usage value.
- BMS intelligent management, extending battery life.
- IP65 protection level, reducing failure risks.
- Equipped with a low-temperature heating function, enabling charging in cold environments.

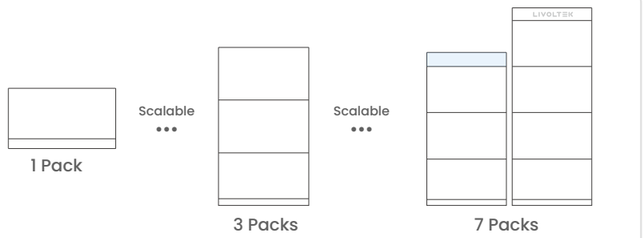
202608VI Edition
Design and specifications are subject to change without notice

PRODUCT STRUCTURE

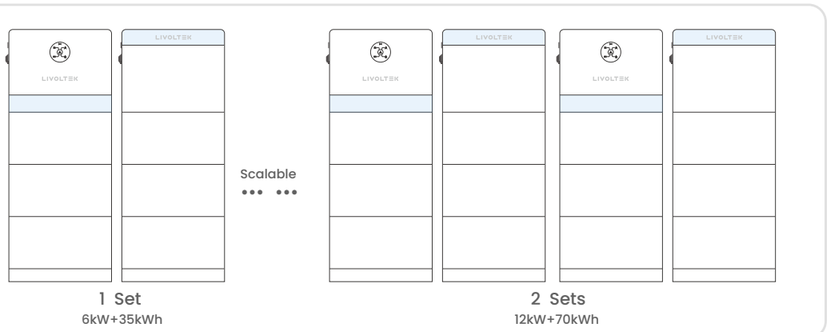


TYPICAL APPLICATION SCENARIOS

BLF-SR05-35



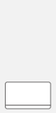
iPower HES1-6K



Low-Voltage Residential Battery

BATTERY

BLF-SR05/10/15/20/25/30/35

Model	BLF-SR05	BLF-SR10	BLF-SR15	BLF-SR20	BLF-SR25	BLF-SR30	BLF-SR35
Technical Properties	 1 PACK	 2 PACK	 3 PACK	 4 PACK	 5 PACK	 6 PACK	 7 PACK
Component	1 × Base Stack + 1 × Module	1 × Base Stack + 2 × Module	1 × Base Stack + 3 × Modules	2 × Base Stack + 4 × Modules + 1 × Parallel Box + 1 × Adapter Box	2 × Base Stack + 5 × Modules + 1 × Parallel Box + 1 × Adapter Box	2 × Base Stack + 6 × Modules + 1 × Parallel Box + 1 × Adapter Box	2 × Base Stack + 7 × Modules + 1 × Parallel Box + 1 × Adapter Box
Cell Type	LFP						
Nominal Voltage	51.2 V						
Operating Voltage Range	43.2-57.6V						
Battery Pack Module	51.2 V, 100 Ah, 5.12 kWh						
Pack Number	1	2	3	4	5	6	7
Total Energy	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh	35.8 kWh
Rated Capacity	100 Ah	200 Ah	300 Ah	400 Ah	500 Ah	600 Ah	700 Ah
Max. Power	5.8 kW	7.68 kW	7.68 kW	7.68 kW	7.68 kW	7.68 kW	7.68 kW
Depth of Discharge	90%						
Max. Charge/Discharge Current	85 A / 100 A	150 A / 150 A	150 A / 150 A	150 A / 150 A	150 A / 150 A	150 A / 150 A	150 A / 150 A
Operating Temperature	Charge: 0°C to 60°C; Discharge: -10°C to 60°C						
Operating Humidity	5%-95%						
Storage Temperature	-20°C to +60°C						
Operating Altitude	<4000 m						
Communication	RS485 / CAN						
Cooling Type	Natural Cooling						
Ingress Protection	IP65						
Installation Location	Wall-mounted / Ground-mounted						
Cycle Life	6000 Cycles[2]						
Dimensions (W × D × H)	680 × 198 × 552.2 mm	680 × 198 × 983.4 mm	680 × 198 × 1414.6 mm	680 × 198 × 1183.4 mm + 680 × 198 × 1091.9 mm	680 × 198 × 1614.6 mm + 680 × 198 × 1091.9 mm	680 × 198 × 1614.6 mm + 680 × 198 × 1523.1 mm	680 × 198 × 1614.6 mm + 680 × 198 × 1954.3 mm
Weight	58.5 kg	109 kg	159.5 kg	227.4 kg	277.9 kg	328.4 kg	378.9 kg

[1]: Systems with 1 inverter and >3 battery packs require a parallel box and dedicated parallel terminals.

[2]: Test conditions: 0.5C Charge/0.5C Discharge, @25°C, 90% DOD, 70% EOL.

BLF-SR51100

Model	BLF-SR51100
Technical Properties	
Cell Type	LFP
Nominal Voltage	51.2 V
Operating Voltage Range	43.2-57.6V
Battery Pack Module	51.2 V, 100 Ah, 5.12 kWh
Pack Number	1
Total Energy	5.12 kWh
Rated Capacity	100 Ah
Max. Power	5.8 kW
Depth of Discharge	0.9
Max. Charge/Discharge Current	85 A / 100 A
Operating Temperature	Charge: 0°C to 60°C; Discharge: -10°C to 60°C
Operating Humidity	5%-95%
Storage Temperature	-20°C to +60°C
Ingress Protection	IP65
Dimensions (W × D × H)	680 × 198 × 431.2 mm
Weight	50.5 kg

OTHER COMPONENTS

Model	Base Stack (LF-BS)	Adapter Box (LF-AB)	Parallel Box (LF-PB)
Technical Properties			
Dimensions (W × D × H)	680 × 198 × 121 mm	680 × 108.5 × 198 mm	680 × 200 × 198 mm
Weight	5.15 kg	5.15 kg	7.1 kg