

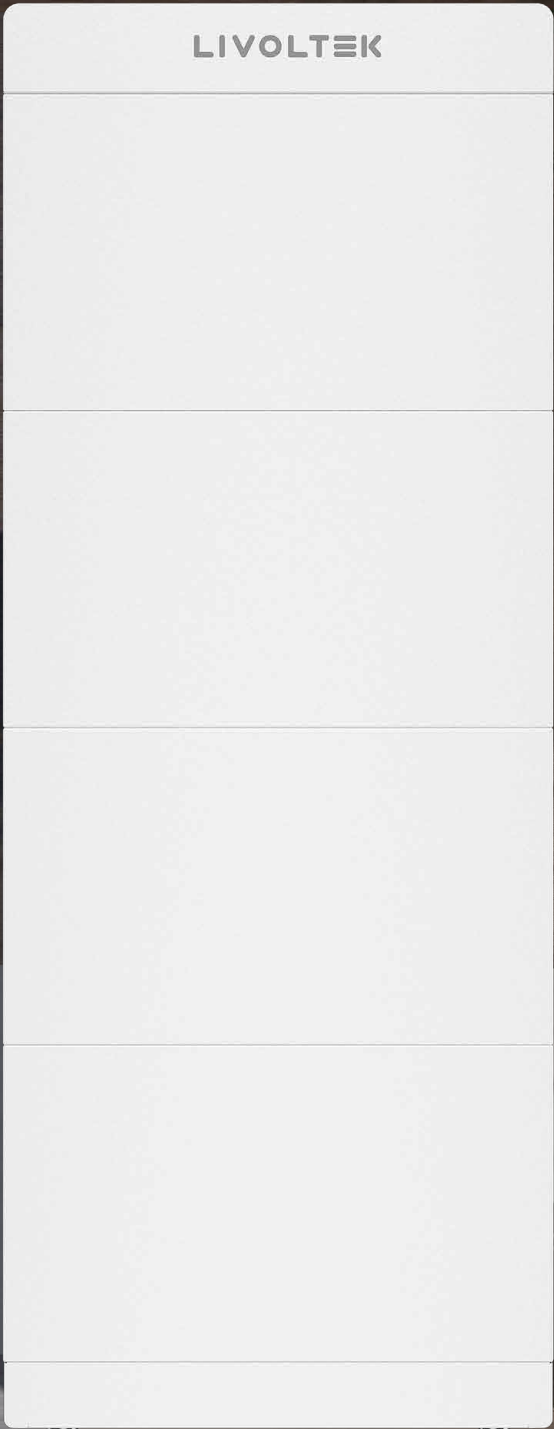
LOW-VOLTAGE RESIDENTIAL BATTERY

BLF-SR5/10/15/20/25/30/35

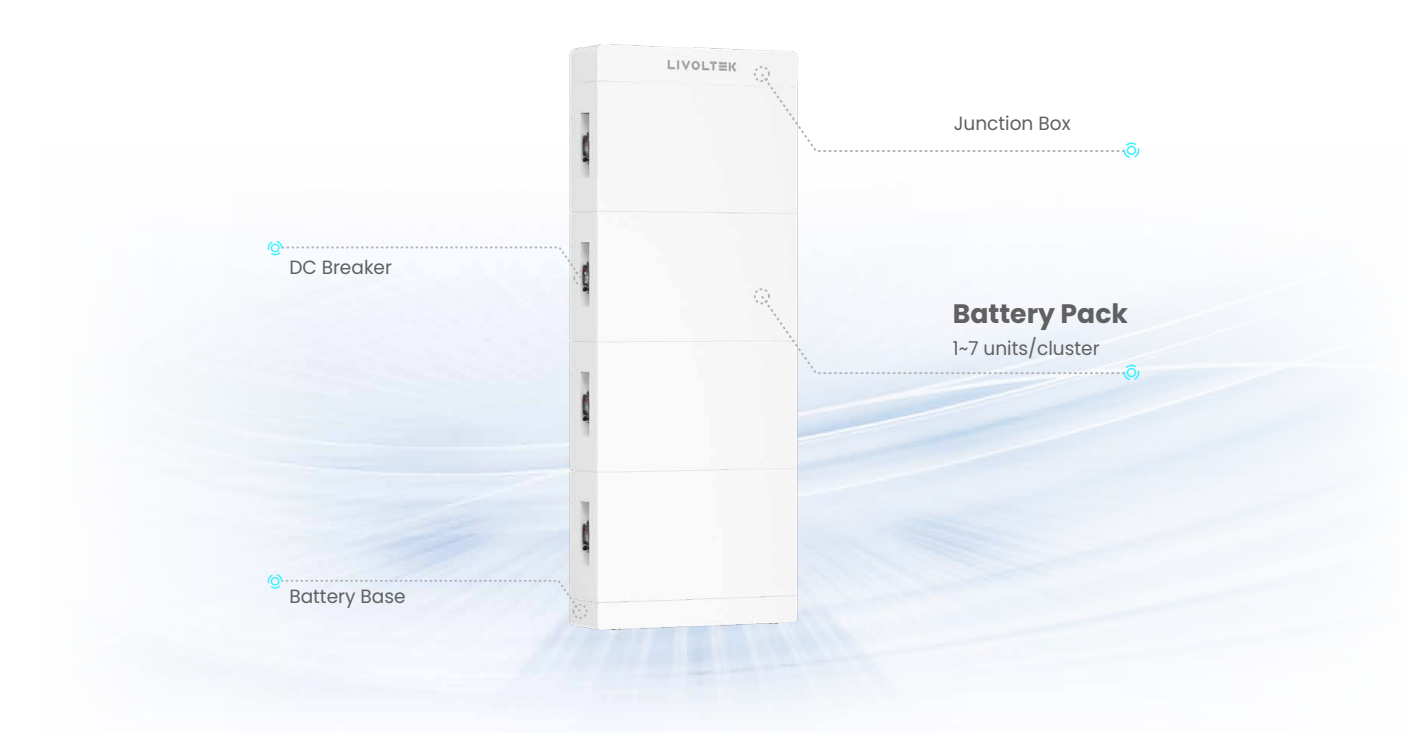
The BLF-SR05~35 battery is an advanced lithium iron phosphate (LFP) battery designed specifically for home energy storage. With a single pack capacity of 5.12kWh and 100Ah cells, it features high energy density and a stacked installation design. Leveraging the safe and durable LFP chemical properties and an intelligent battery management 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.

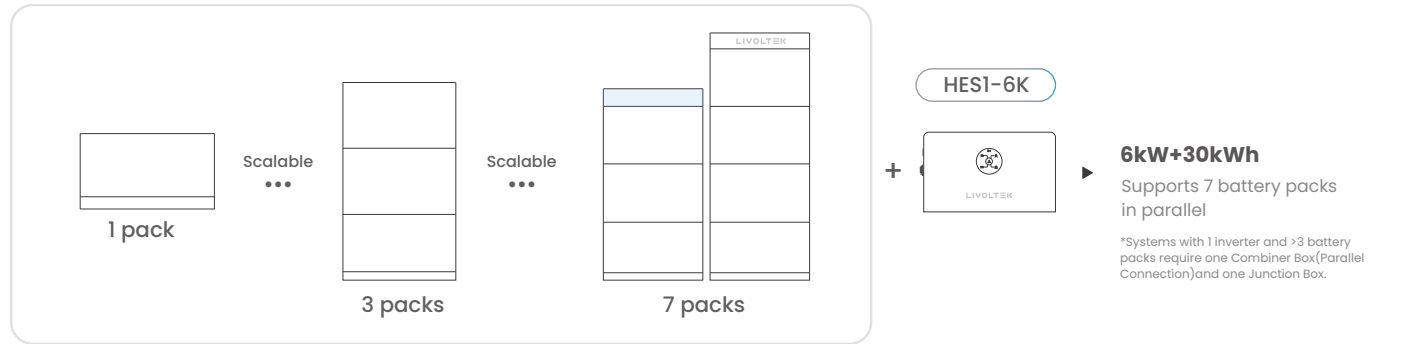


PRODUCT STRUCTURE

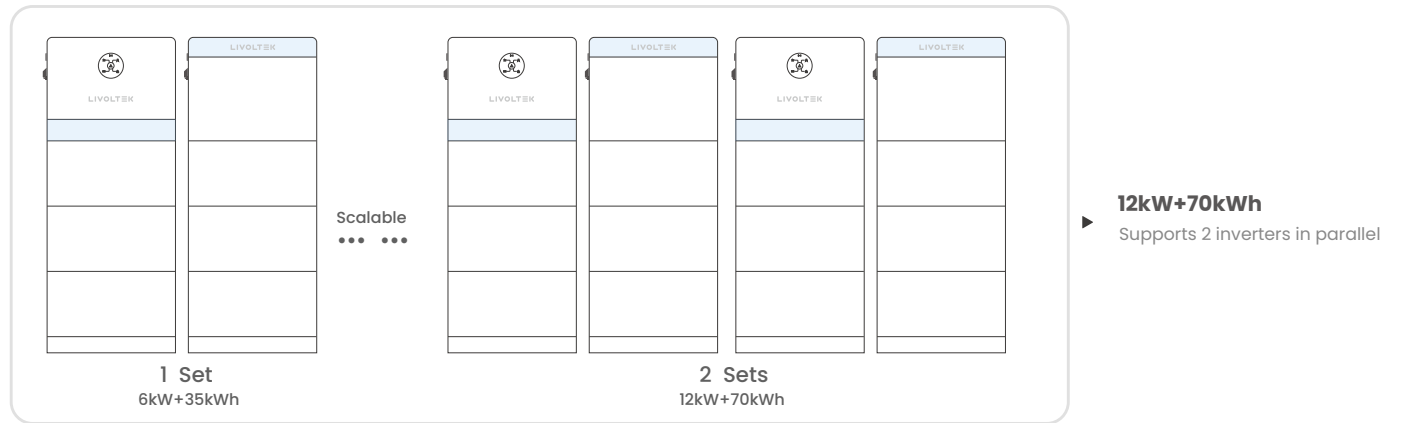


TYPICAL APPLICATION SCENARIOS

BLF-SR05~35



iPower HES1-6K

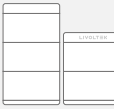
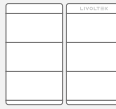
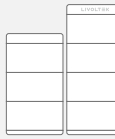


*Note: Parallel Operation (Coming Soon): This feature is currently in development and will be released soon.

LOW-VOLTAGE RESIDENTIAL BATTERY

BATTERY

BLF-SR05-35

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+1*Module	1*Base+2*Modules	1*Base+3*Modules	2*Bases+4*Modules+1 *Junction Box+1*Combiner Box	2*Bases+5*Modules+1 *Junction Box+1*Combiner Box	2*Bases+6*Modules+1 *Junction Box+1*Combiner Box	2*Bases+7*Modules+1 *Junction Box+1*Combiner Box
Cell Type	LFP						
Nominal Voltage	51.2V						
Operating Voltage Range	43.2V~57.6V						
Battery Pack Module	51.2V 100Ah 5.12 kWh						
Pack Number	1	2	3	4	5	6	7
Total Energy	5.12kWh	10.2kWh	15.4kWh	20.5kWh	25.6kWh	30.7kWh	35.8kWh
Rated Capacity	100Ah	200Ah	300Ah	400Ah	500Ah	600Ah	700Ah
Max. Power	5.8KW	7.68KW	7.68KW	7.68KW	7.68KW	7.68KW	7.68KW
Depth of Discharge	0.9						
Max. Charge/Discharge Current	85A/100A	150A/150A	150A/150A	150A/150A	150A/150A	150A/150A	150A/150A
Operating Temperature	Charge: 0°C - 60°C; Discharge: -10°C - 60°C						
Operating Humidity	5% - 95%						
Storage Temperature	-20°C to +60°C						
Operating Attitude	< 4000m						
Communication	RS485 / CAN						
Cooling Type	Natural Cooling						
Ingress Protection	IP65						
Installation Location	Wall-mounted / Ground-mounted						
Cycle Life	6000 Cycles[2]						
Dimension(W*D*H)	680*198*552.2 mm	680*198*983.4mm	680*198*1414.6mm	680*198*1183.4mm + 680*198*1091.9mm	680*198*1614.6mm + 680*198*1091.9mm	680*198*1614.6mm + 680*198*1523.1mm	680*198*1614.6mm + 680*198*1954.3mm
Weight	58.5 kg	109 kg	159.5 kg	227.4 kg	277.9 kg	328.4 kg	378.9 kg

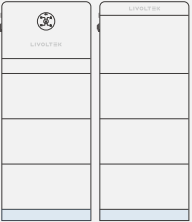
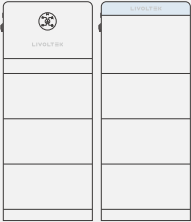
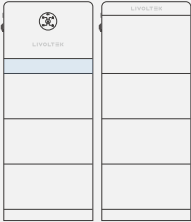
[1]: Systems with 1 inverter and >3 battery packs require a parallel box and dedicated parallel terminals.

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

BLF-SR51100

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

OTHER COMPONENTS

Model	Base	Junction Box	Combiner Box
Technical Properties			
Dimension(W*D*H)	680*198*121mm	680*108.5*198mm	680*200*198mm
Weight	5.15kg	5.15kg	7.1kg