

LIVOLTEK

HIGH-VOLTAGE RESIDENTIAL BATTERY

LITHIUM BATTERY SYSTEM: BHF-S10/S15/S20/S25/S30 G1/G2[1]

The LIVOLTEK BHF HV Battery System is ideal for new installation of residential energy storage system.

With high energy density, high efficiency, modular stacking HANEL design and IP65 rating, BHF series battery is space-saving for indoor and outdoor installation. Up to 30 kWh system can fit your high energy demand.

[1]: BHF-S10-30-G1 is equipped with the old version BMS. BHF-S10-30-G2 is equipped with the new version BMS. Only the G2 support the parallel function.

Product Benefits

- (A) IP65 supporting indoor and outdoor installation
- Remote fault diagnosis, upgrade and maintenance
- Reliable performance: high efficiency, high energy density and 90% DOD
- (7) Long cycle life and safest prismatic LFP batteries
- Modular stacking design, easy installation, supporting floor and wall mounting

HIGH-VOLTAGE RESIDENTIAL BATTERY

BATTERY

BHF-S10/S15/S20/S25/S30

Nominal Voltage 204.8V 307.2V 409.6V 512V 614.4V	Model	BHF-S10	BHF-\$15	BHF-S20	BHF-S25	BHF-S30
Departing Voltage Range	Technical Properties	\$1000.100		LAYOUT DIX	Limited And Control of the Control o	
Bottery Module 1024V 50Ah 512kWh Number of Modules 2 3 4 5 6 Total Energy 10.2kWh 15.4kWh 20.5kWh 25.6kWh 30.7kWh Usable Energy 9.2kWh 13.8kWh 18.4kWh 23.0kWh 27.6kWh Rated Copacity 50Ah 10.2kW 12.8kW 15.4kW Nominal Power 5.1kW 7.7kW 10.2kW 12.8kW 15.4kW Max Power 9.8kW 14.7kW 19.7kW 24.6kW 29.5kW Rated Charge/Discharge 25A 48A 56000 Cycles[1]	Nominal Voltage	204.8V	307.2V	409.6V	512V	614.4V
Number of Modules 2 3 4 5 6 Total Energy 10.2kWh 15.4kWh 20.5kWh 25.6kWh 30.7kWh Usable Energy 9.2kWh 13.8kWh 18.4kWh 23.0kWh 27.6kWh Rated Capacity 50Ah 50Ah 10.2kW 12.8kW 15.4kW Mox Power 9.8kW 14.7kW 19.7kW 24.6kW 29.5kW Max Charge/Discharge 25A 48A 5 56°C Mox Charge/Discharge Current 48A 6000 Cycles[1] 56°C Operating Temperature Range Charge: 0°C to 55°C 55°C Storage Temperature Range Charge: 0°C to 55°C 55°C Storage Temperature Range P5% 95% 95% Operating Humidity 5% 95% 95% Operating Altitude Below 4000m Protection Degree IP85 Installation Location Wall—mounted / Ground-mounted Battery to Inverter Communication CAN Certificate CE, UN38.3, IEC626i9, IEC6100 Protective	Operating Voltage Range	172.8V-230.4V	259.2V-345.6V	345.6V-460.8V	432V-576V	518.4V-691.2V
Total Energy	Battery Module	102.4V 50Ah 5.12kWh				
Sable Energy	Number of Modules	2	3	4	5	6
Rated Capacity SOAh	Total Energy	10.2kWh	15.4kWh	20.5kWh	25.6kWh	30.7kWh
Nominal Power 5.1kW 7.7kW 10.2kW 12.8kW 15.4kW 16.7kW 24.6kW 29.5kW 29.5kW 29.5kW 25.6kW 29.5kW 25.6kW 29.5kW 25.6kW 25.6k	Usable Energy	9.2kWh	13.8kWh	18.4kWh	23.0kWh	27.6kWh
Max. Power 9.8kW 14.7kW 19.7kW 24.6kW 29.5kW Rated Charge/Discharge Current 25A	Rated Capacity	50Ah				
Rated Charge/Discharge 25A Max. Charge/Discharge Current 48A Cycle Life 6000 Cycles[1] Operating Temperature Range Charge: 0°C to 55°C Storage Temperature -20°C to 55°C Operating Humidity 5% - 95% Operating Altitude Below 4000m Protection Degree IP65 Installation Location Wall-mounted / Ground-mounted Battery to Inverter Communication CAN Battery to Battery/BMS CAN Certificate CE, UN38.3, IEC682619, IEC61000 Protective Level I Dimensions(W×H×D mm) 870*88.5*208.7 870*1167*208.7 870*1167*208.7 870*1167*208.7 870*1167*208.7	Nominal Power	5.1kW	7.7kW	10.2kW	12.8kW	15.4kW
Current 48A Max. Charge/Discharge Current 48A Cycle Life 6000 Cycles[i] Operating Temperature Range Charge: 0°C to 55°C Storage Temperature -20°C to 55°C Operating Humidity 5% - 95% Operating Altitude Below 4000m Protection Degree IP65 Installation Location Wall-mounted / Ground-mounted Battery to Inverter Communication CAN Battery to Battery/BMS CAN Certificate CE, UN38.3, IEC62619, IEC61000 Protective Level I Dimensions(W×H×D mm) 870*187*208.7 870*1167*208.7 870*1167*208.7 870*1167*208.7 870*1067*208.7	Max. Power	9.8kW	14.7kW	19.7kW	24.6kW	29.5kW
Cycle Life 6000 Cycles[1] Operating Temperature Range Charge: 0°C to 55°C Discharge: -20°C to 55°C Storage Temperature -20°C to 55°C Operating Humidity 5% - 95% Operating Altitude Below 4000m Protection Degree IP65 Installation Location Wall-mounted / Ground-mounted Battery to Inverter Communication CAN Battery to Battery/BMS CAN Certificate CE, UN38.3, IEC62619, IEC61000 Protective Level I Dimensions(W×H×D mm) 870*878.5*208.7 870*1167*208.7 870*1167*208.7 870*1167*208.7 870*1067*208.7	Rated Charge/Discharge Current	25A				
Operating Temperature Range Charge: 0°C to 55°C Discharge: -20°C to 55°C Storage Temperature -20°C to 55°C Operating Humidity 5% - 95% Operating Altitude Below 4000m Protection Degree IP65 Installation Location Wall-mounted / Ground-mounted Battery to Inverter Communication CAN Battery to Battery/BMS CAN Certificate CE, UN38.3, IEC62619, IEC61000 Protective Level I Dimensions(W×H×D mm) 870*878.5*208.7 870*1167*208.7 870*1067*208.7 870*1067*208.7 870*1167*208.7 870*1067*208.7 870*1067*208.7	Max. Charge/Discharge Current	48A				
Discharge: -20°C to 55°C	Cycle Life	6000 Cycles[1]				
Operating Humidity 5% - 95% Operating Altitude Below 4000m Protection Degree IP65 Installation Location Wall-mounted / Ground-mounted Battery to Inverter Communication CAN Battery to Battery/BMS CAN Certificate CE, UN38.3, IEC62619, IEC61000 Protective Level I Dimensions(W×H×D mm) 870*878.5*208.7 870*1167*208.7 870*778*208.7 870*1167*208.7 870*778*208.7 870*1067*208.7 870*1067*208.7	Operating Temperature Range					
Operating Altitude Below 4000m Protection Degree IP65 Installation Location Wall-mounted / Ground-mounted Battery to Inverter Communication CAN Battery to Battery/BMS CAN Certificate CE, UN38.3, IEC62619, IEC61000 Protective Level I Dimensions(W×H×D mm) 870*878.5*208.7 870*1167*208.7 870*1167*208.7 870*1067*208.7	Storage Temperature	-20°C to 55°C				
Protection Degree IP65 Installation Location Wall-mounted / Ground-mounted Battery to Inverter Communication CAN Battery to Battery/BMS CAN Certificate CE, UN38.3, IEC62619, IEC61000 Protective Level I Dimensions(W×H×D mm) 870*878.5*208.7 870*1167*208.7 870*1455*208.7 870*178*208.7 870*1067*208.7	Operating Humidity	5% - 95%				
Installation Location	Operating Altitude	Below 4000m				
Battery to Inverter Communication CAN Battery to Battery/BMS CAN Certificate CE, UN38.3, IEC62619, IEC61000 Protective Level I Dimensions(W×H×D mm) 870*878.5*208.7 870*1167*208.7 870*1455*208.7 870*1167*208.7 870*1067*208.7 870*1067*208.7	Protection Degree	IP65				
Communication CAN Battery to Battery/BMS CAN Certificate CE, UN38.3, IEC62619, IEC61000 Protective Level I Dimensions(W×H×D mm) 870*878.5*208.7 870*1167*208.7 870*1167*208.7 870*1167*208.7 870*1067*208.7	Installation Location	Wall-mounted / Ground-mounted				
Certificate CE, UN38.3, IEC62619, IEC61000 Protective Level I Dimensions(W×H×D mm) 870*878.5*208.7 870*1167*208.7 870*1167*208.7 870*1167*208.7 870*1067*208.7		CAN				
Protective Level I Dimensions(W×H×D mm) 870*878.5*208.7 870*1167*208.7 870*1455*208.7 870*1455*208.7 870*778*208.7 870*1067*208.7	Battery to Battery/BMS	CAN				
Dimensions(W×H×D mm) 870*878.5*208.7 870*1167*208.7 870*1455*208.7 870*1167*208.7 870*1067*208.7 870*1067*208.7	Certificate	CE, UN38.3, IEC62619, IEC61000				
Dimensions(W×H×D mm) 8/0*8/8.5*208./ 8/0*116/*208./ 8/0*1455*208./ 870*778*208.7 870*1067*208.7	Protective Level	I I				
Net Weight 147kg 209kg 27lkg 147+209=356kg 209+209=418kg	Dimensions(W×H×D mm)	870*878.5*208.7	870*1167*208.7	870*1455*208.7		
	Net Weight	147kg	209kg	271kg	147+209=356kg	209+209=418kg

^{[1]:} Test conditions: 0.5C Charge/0.5C Discharge, @25°C, 90% DOD, 70% EOL.