

## HIGH-VOLTAGE BATTERY SYSTEM

### BHF-G SERIES BATTERY SYSTEM: BHF-G15/25/30/35/40/45/50/55/60

Livolttek BHF-G series are a high-performance, scalable high-voltage battery storage module, can be directly used as backup power or combined with photovoltaics to form an optical storage system, suitable for shops, hotels, small factories and other scenarios. As an energy storage system, the BHF-G series adopt the modular and rack-mounted design which are easy to install and maintain. A single battery pack has a capacity of 5.12kWh, while a cluster supports up to 12 packs as a combination system with a capacity of 61.4kWh. Also, multiple battery clusters can be in parallel for expanding capacity and power (up to 5 in parallel for a capacity of 300 kWh). Additionally, because of its Intelligent BMS system with high-performance equalization technology and multiple protections, the system can automatically balance the current and voltage of each cell and maintain it for long cycle life.



### Product Benefits

- 1. Easy installation and expansion with modular design
- 2. Wide operating temperature range from -20°C to 55°C
- 3. Real-time monitor and management via CAN/RS485
- 4. Long cycle life with LFP cells
- 5. Intelligent BMS multiple protection
- 6. Reliable performance: high efficiency and 90% DOD

## HIGH-VOLTAGE BATTERY SYSTEM

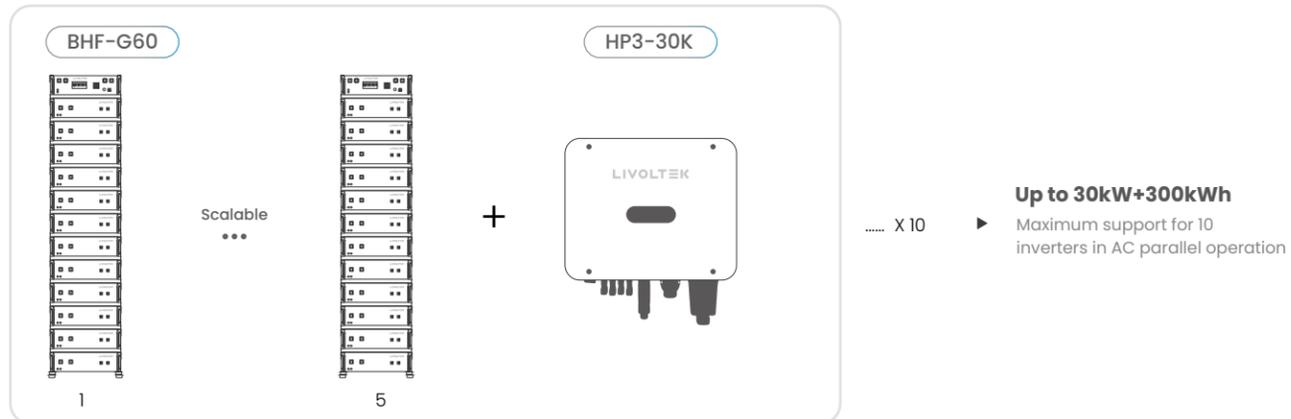
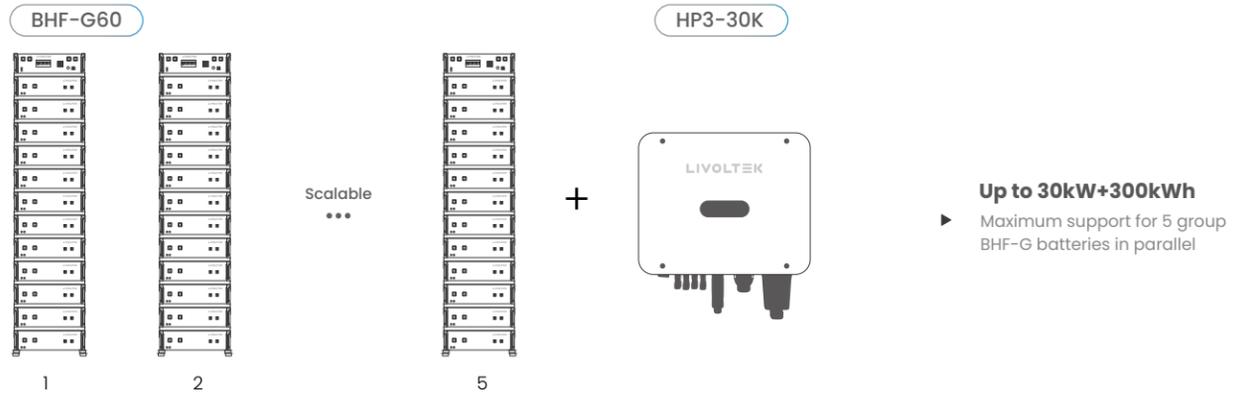
### BHF-G15/20/25/30/35/40/45/50/55/60

Model	BHF-G15	BHF-G20	BHF-G25	BHF-G30	BHF-G35	BHF-G40	BHF-G45	BHF-G50	BHF-G55	BHF-G60
Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
Operating Voltage Range (V)	129.6-172.8	172.8-230.4	216-288	259.2-345.6	302.4-403.2	345.6-460.8	388.8-518.4	432-576	475.2-633.6	518.4-691.2
Rate Capacity (Ah)	100									
Number of modules	3	4	5	6	7	8	9	10	11	12
Total Energy (kWh)	15.4	20.5	25.6	30.7	35.8	41	46.1	51.2	56.3	61.4
Usable Energy(kWh)	13.8	18.4	23	27.6	32.3	36.9	41.5	46.1	50.7	55.3
Rated Power (kW)	7.7	10.2	12.8	15.4	17.9	20.5	23	25.6	28.2	30.7
Max power (kW)	15.4	20.5	25.6	30.7	35.8	41	46.1	51.2	56.3	61.4
Rated Charge/Discharge Current(A)	50/50									
Max Charge/Discharge Current	80/100									
Depth of Discharge	90%									
Operating Temperature (°C)	Charge: 0°C to 55°C; Discharge: -20°C to 55°C									
Operating Humidity	5%-95%									
Operating Altitude	< 4000m									
Communication	CAN/RS485									
Cooling Type	Natural									
Protection Rating	IP20									
Cycle Life	6000 Cycles[1]									
Dimensions (mm) (W*D*H)[2]	493*545*615.6	493*545*752.1	493*545*888.5	493*545*1025	493*545*1161.5	493*545*1298	493*545*1434.5	493*545*1571	493*545*1707.5	493*545*1844
Weight (kg)	154	197.5	241	284.5	328	371.5	415	458.5	502	545.5

[1]: Test conditions: 0.5C Charge/0.5C Discharge, @25°C, 90% DOD, 70% EOL  
 [2]: The dimensions shown here are for the battery with the frame.

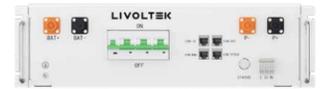


TYPICAL APPLICATION SCENARIOS



SYSTEM COMPONENTS

Battery high voltage control box



Model	BHF-C04ZY
Operating Voltage	80 - 750V
Nominal Charge/Discharge Current	50/50 A
Max.Charge/Discharge Current	80/100 A
Operating Temperature Range	Charge: 0°C to 55°C; Discharge: -20°C to 55°C
Ingress Protection	IP20
Dimension ( W×D×H )	438*533*131 mm
Weight Approximate	-15 kg

Battery pack



Model	BHF-B51100
Battery Type	LiFePO (LFP)
Nominal Voltage	51.2 V
Rated Capacity	100 Ah
Rated Energy	5.12 kWh
Nominal Charge/Discharge Current	50A / 50A
Charge Temperature	0°C ~ 50°C
Discharge Temperature	-20°C ~ 55°C
Storage Temperature	15°C ~ 35°C (Recommended)
Ingress Protection	IP20
Dimension(WxDxH)	485x570x154 mm (with handle)
Weight Approximate	43.5 kg