

## 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

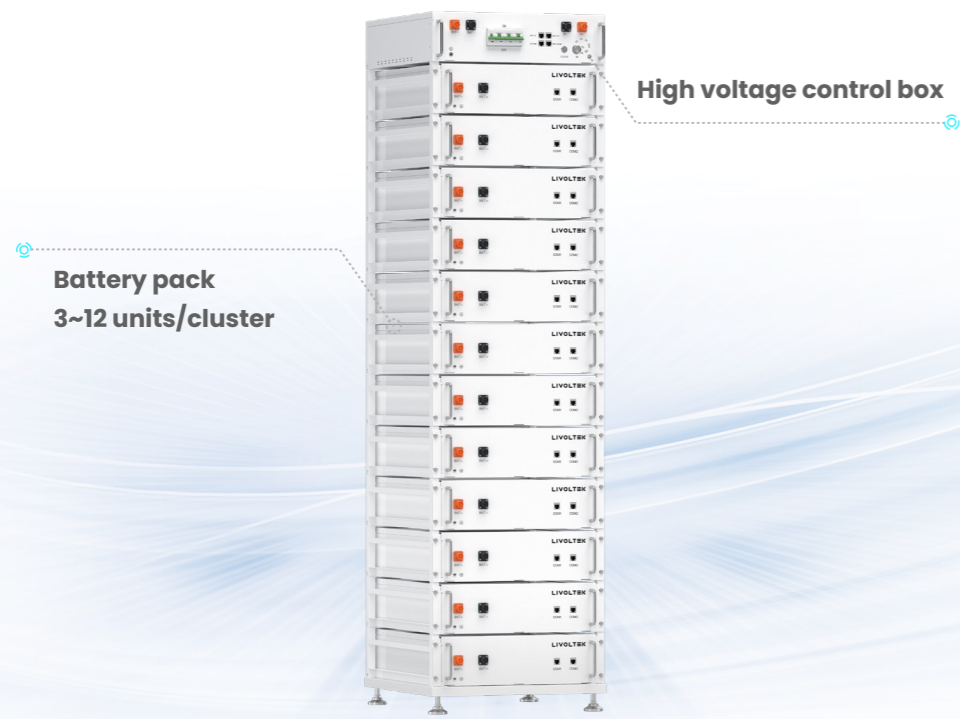
## HIGH-VOLTAGE BATTERY SYSTEM

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

BATTERY

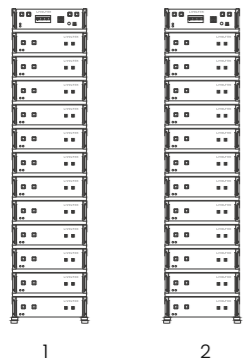
Model	BHF-G15	BHF-G20	BHF-G25	BHF-G30	BHF-G35	BHF-G40	BHF-G45	BHF-G50	BHF-G55	BHF-G60
Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
Operating Voltage Range (V)	129.6-172.8	172.8-230.4	216-288	259.2-345.6	302.4-403.2	345.6-460.8	388.8-518.4	432-576	475.2-633.6	518.4-691.2
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 (A)	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]	483*554*605	483*554*760	483*554*915	483*554*1070	483*554*1225	483*554*1380	483*554*1535	483*554*1690	483*554*1845	483*554*2000
Weight (kg)	152	197.3	243	288.5	334	379.5	425	470.5	516	561.5

[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.



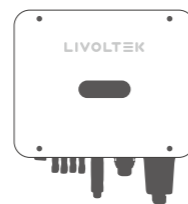
TYPICAL APPLICATION SCENARIOS

BHF-G60



Scalable  
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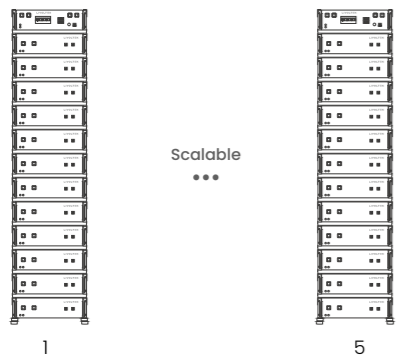
HP3-30K



**Up to 30kW+300kWh**

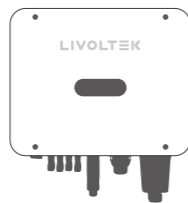
- ▶ Maximum support for 5 group BHF-G batteries in parallel

BHF-G60



Scalable  
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HP3-30K



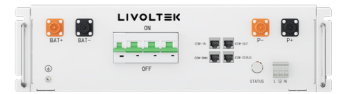
**Up to 30kW+300kWh**

- ▶ Maximum support for 10 inverters in AC parallel operation

..... X 10

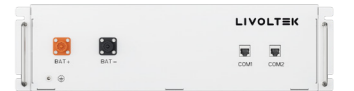
SYSTEM COMPONENTS

Battery high voltage control box



Model	BHF-C01YD
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	100A / 100A
Charge Temperature	0°C ~ 50°C
Discharge Temperature	-20°C ~ 55°C
Storage Temperature	15°C ~ 35°C (Recommended)
Ingress Protection	IP20
Dimension(WxDxH)	483x535x133mm
Weight Approximate	~43kg