

# Industrial and Commercial ESS

BHF-G Series Battery System: BHF-G20/25/30/35/40/45/50/55/60

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.

## Features

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



## Technical Specification

Model	BHF-G20	BHF-G25	BHF-G30	BHF-G35	BHF-G40	BHF-G45	BHF-G50	BHF-G55	BHF-G60
Nominal Voltage (V)	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
Operating Voltage Range (V)	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	4	5	6	7	8	9	10	11	12
Total Energy (kWh)	20.5	25.6	30.7	35.8	41	46.1	51.2	56.3	61.4
Usable Energy (kWh)	18.4	23	27.6	32.3	36.9	41.5	46.1	50.7	55.3
Rated Power (kW)	10.2	12.8	15.4	17.9	20.5	23	25.6	28.2	30.7
Max power (kW)	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)	50 / 100								
Depth of Discharge(%)	90%								
Operating Temperature (°C)	Charge: 0 - 55; Discharge: -20 - 55								
Operating Humidity(%)	5 -95								
Operating Altitude(m)	< 4000								
Communication	CAN/RS485								
Cooling Type	Natural								
Protection Rating	IP20								
Cycle Life	4000 Cycles <sup>[1]</sup>								
Dimensions (W*D*H mm) <sup>[2]</sup>	603*450*2000								
Weight (kg)	277	318	359	400	441	482	523	564	605

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

[2]: Dimensions include mounting bracket. Dimensions of single pack : 436\*420\*132mm()