

GSHV-51100

High-Voltage Stacked LFP Battery



- All new a grade LiFePO₄ cells
- 6000 cycle life
- Modular design up to 3~8 modules per unit
- Built-in smart battery management system (BMS)
- Support WiFi communication for remote monitoring and services

The GSHV high-voltage energy storage battery features a modular series design, enabling flexible expandability and high-voltage output. It combines the advantages of high safety and high efficiency, making it fully capable of meeting the energy storage needs across various scenarios, including microgrids and off-grid systems.

ADVANTAGE



**HIGH
EFFICIENCY**



**SPACE
SAVING**



**EXPANDABLE
SYSTEM**



**EASY
INSTALLATION**



**BUILT-IN
WIFI**

SPECIFICATION

Electrical

Model	GSHV-51100	
Cell type	LiFePO4	
Rated voltage	307.2V	409.6V
Operating voltage	259.2 ~ 345.6V	345.6 ~ 460.8V
Total capacity	30.72kWh	40.93kWh
Maximum number of modules in series	6pcs	8pcs
Nominal voltage	51.2V	
Nominal capacity	100Ah	
Standard charge/discharge current	50A	
Maximum charge/discharge current	100A	
Battery pack dimensions	630*370*150mm	
Battery pack net weight	45kg	
Discharge depth	90%	
Cycle life ^[1]	≥6000 Cycles	

Environmental

Ambient humidity	≤80%RH (No condensation)	
Operating temperature	Charge: 0 ~ 55°C Discharge: -20 ~ 55°C	
Storage temperature	-20 ~ 55°C	
Altitude	≤2000m	
Cooling method	Natural cooling	

Communication

Display	LCD display/LED indicator light	
Communication	CAN/RS485/Bluetooth/Wi-Fi	

Mechanical



Dimension	630*370*1097mm	630*370*1397mm
Weight	298kg	388kg
Installation method	Stackable-mounted	
Protection level	IP20	

Conformance

Safety regulations	IEC 62619	
EMC	EN IEC 61000-6-1/2/3/4	
Transportation	UN 38.3	

[1] Test conditions: 0.2C charge/discharge, ambient temperature maintained at 25±2°C, 80% DOD



 www.gerchamp.com
 battery@gerchamp.com