

**102.4~614V**

# LiFePO4 Battery Pack

## FLH Series

### Features

- Multiple Protection with built-in smart BMS, breaker and fuse.
- LiFePO4: Higher safe performance and longer cycle life.
- Stack-mounted design, expandable up to 6 units in series.
- Compatible with leading inverter brands.
- Aerosol fire extinguishing system.
- Inverter interface protection.
- Up to 10-year long warranty.
- Configurable parameters and working mode via LCD touch screen.



**FLH96050SG1**



Model		FLH96050SG1				
Battery Type	LiFePO4					
Module Nominal Energy	5.12kWh					
Module Nominal Capacity	50Ah					
Module Nominal Voltage	102.4V					
Number of Battery Modules	2(min)	3	4	5	6	
System Nominal Energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	
System Nominal Voltage	204.8V	307.2V	409.6V	512V	614.4V	
System Operating Voltage	192-230.4V	288-345.6V	384-460.8V	480-576V	576-691.2V	
Recommend Charge/Discharge Current	25A	25A	25A	25A	25A	
Max. Continuous Charge/Discharge Current[1]	50A	50A	50A	50A	50A	
Peak Charge/Discharge Current(15S)	60A	60A	60A	60A	60A	
Depth of Discharge(DOD)	≥95%					
Display Type	LED+LCD(Touch)					
IP Rating of Enclosure	IP65					
Working Temperature Range	Charge: 0°C~55 °C					
	Discharge: -20°C~55 °C					
Storage Temperature Range	0°C~+35°C					
Humidity	5%~95%					
Altitude	≤ 2000M					
Communication	RS485/CAN					
Cycle Life[2]	≥ 6000 Cycles					
Installation	Stacking-Mounting/Floor-Mounting					
Protection	Built-in smart BMS, Breaker, Fuse					
Warranty Period	10 Years					
Certification	UN38.3、CB、CE-EMC、IEC 62619					
Control Module FLH96050SCG1	Net Weight	12.5KG				
	Gross Weight(with base)	24.5KG				
	Product Dimension	600x385x200MM				
	Package Dimension(with base)	712x497x352MM				
Battery Module FLH96050SMG1	Battery Designation[3]	IFpP/41/150/102/[(1P32S)NS]M/-10+50/90				
	Net Weight	57.5KG				
	Gross Weight	62KG				
	Product Dimension	600x385x260MM				
	Package Dimension(with base)	712x497x378MM				

[1] Max. Continuous Charge/Discharge Current is Affected by Temperature and SOC.

[2] Test Conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

[3] "N" Means the Number of Battery Packs Connected Series and Should not Exceed 6. (N≤6)

\*Product specifications may vary during continuous improvements. Please contact us for latest details.

\*Refer to Felicitysolar's Warranty Policy for applicable conditions.

## Product Display



IP65 Protection Level



Aerosol Fire Extinguishing System



Real-time Status via  
LCD Display & SOC Display



Module Design for Easy Expansion

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