

10.24~30.72kWh

LiFePO4 Battery

FLH Series | High-voltage

Features



Integrated Grounding Layer
Design for Effortless Connection



IP65-rate Protection,
Suitable for Outdoor Use



Peace of Mind with Fire
Protection Module



12V Debug port, Safer
and Faster Repair



Error-free Automatic
Battery Module Addressing



USB & WiFi Options for
Convenient Maintenance



**FLH96050SG2 /
FLH96050SG2-H**



Model		FLH96050SG2/FLH96050SG2-H				
Battery Type	LiFePO4					
Module Energy	5.12kWh					
Module Capacity	50Ah					
Module Nominal Voltage	102.4V					
Number of Battery Modules	2	3	4	5	6	
System Energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	
System Usable Energy	9.21kWh	13.82kWh	18.43kWh	23.04kWh	27.64kWh	
System Nominal Voltage	204.8V	307.2V	409.6V	512V	614.4V	
System Operating Voltage	185.6-230.4V	278.4-345.6V	371.2-460.8V	464-576V	556.8-691.2V	
Recommend Charge/Discharge Current	25A	25A	25A	25A	25A	
Max. Continuous Charge/Discharge Current[1]	50A	50A	50A	50A	50A	
Depth of Discharge(DOD)	90%					
Display Type	LED+LCD(Touch)					
IP Rating of Enclosure	IP65					
Operating Temperature Range	Charge: 0°C~+55 °C					
	Discharge: -20°C~+55 °C					
Storage Temperature Range	0°C~+35°C					
Humidity	5%~95%					
Altitude	≤ 2000M					
Cycle Life[2]	≥ 6000 Cycles					
Installation	Stacking-Mounting/Floor-Mounting					
Protection	Built-in Smart BMS, Breaker					
Communication	RS485/CAN					
Warranty Period[3]	10 Years					
Certification	UN38.3, IEC 62619, IEC 60730-1, IEC 62040-1, IEC/EN 61000-6-1/2/3/4					
Control Module FLH96050SCG2 FLH96050SCG2-H	Net Weight	12.5KG				
	Gross Weight(with base)	24.5KG				
	Product Dimension	600x385x200MM				
	Package Dimension(with base)	712x497x352MM				
Battery Module FLH96050SMG2 FLH96050SMG2-H	Battery Designation[4]	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] Conditions Apply, Refer to Felicitysolar Warranty Policy.

[4] "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



Built-in WiFi / Bluetooth for Remote Monitoring



Optional Heating Modules (FLH96050SG2-H model)



Support 6 Pcs in Series, Max. 16 Clusters in Parallel



High-efficiency New and Old Modules Balancing

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