

51.2V

LiFePO4 Battery Pack

FLS Series

Features

-  LiFePO4: higher safe performance and longer cycle life.
-  Multiple Protection: built-in smart BMS, breaker and fuse.
-  Modular design for easy installation and increased capacity.
-  Flexible Installation: floor-mounted.
-  Wide Compatibility: compatible with leading inverter brands.
-  High Scalability: capacity up to 10.24kWh.
-  Built-in WiFi: remote monitor of the battery pack data.
-  Aerosol Fire Extinguishing System.



FLS48050SG1



Model	FLS48050SCG1	FLS48050SMG1	FLS48050SG1M2	FLS48050SG1M3	FLS48050SG1M4
Battery Type	LiFePO4				
Module Nominal Energy	2.56kWh				
Module Nominal Capacity	50Ah				
Module Nominal Voltage	51.2V				
Number of Battery Modules	1	1	2	3	4
System Nominal Energy	2.56kWh	2.56kWh	5.12kWh	7.68kWh	10.24kWh
System Nominal Voltage	51.2V				
System Operating Voltage	44.8-57.6V				
Recommend Charge/Discharge Current	25A	25A	40A	40A	40A
Max. Continuous Charge/Discharge Current[1]	50A	50A	80A	80A	80A
Peak Charge/Discharge Current(15S)	100A	100A	100A	100A	100A
Scalability	Max. 4 pcs in Parallel(10.24kWh)				
Depth of Discharge(DOD)	≥95%				
Display Type	Control Module: LCD/Battery Module: LED*4				
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	Floor-Mounted				
Protection	Built-in Smart BMS, Breaker, Fuse				
Warranty Period	10 Years				
Certification	UN38.3、CE-EMC、IEC 62619				
Control Module FLS48050SCG1	Product Weight Approximate	31KG			
	Package Weight Approximate	40KG			
	Product Dimension	530X350X180 MM			
	Package Dimension	642X462X337 MM			
Battery Module FLS48050SMG1	Battery Designation	IFpP/41/150/102/[1P16S]M/-10+50/95			
	Product Weight Approximate	31KG			
	Package Weight Approximate	36KG			
	Product Dimension	530X350X175 MM			
	Package Dimension	642X462X293 MM			

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

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

*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



Module Design for Easy Expansion

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