








# 51.2V

## LiFePO4 Battery Pack

### FLS Series

#### Features

-  LiFePO4: Higher safe performance and longer cycle life.
-  Flexible Installation: floor-mounted.
-  Multiple Protection with built-in smart BMS, breaker and fuse.
-  Compatible with leading inverter brands.
-  Scalable expansion up to 8 units in parallel.
-  Modular design for easy installation and increased capacity.
-  Aerosol fire extinguishing system.



**FLS48100SG1**



Model		FLS48100SG1							
Battery Type		LiFePO4							
Module Nominal Energy		5.12kWh							
Module Nominal Capacity		100Ah							
Module Nominal Voltage		51.2V							
Number of Battery Modules		1	2	3	4	5	6	7	8
System Nominal Energy		5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
System Nominal Voltage		51.2V							
System Operating Voltage		44.8-57.6V							
Recommend Charge/Discharge Current		50A	100A	150A	200A	250A	300A	350A	400A
Max. Continuous Charge/Discharge Current[1]		60A	120A	180A	240A	300A	360A	400A	400A
Peak Charge/Discharge Current(15S)		100A	200A	300A	400A	500A	600A	700A	800A
Scalability		Max. 8 pcs in Parallel							
Depth of Discharge(DOD)		≥95%							
Display Type		Control Module: LCD/Battery Module: LED*4							
Protection Level		IP21							
Working Temperature Range		Charge: 0°C~55 °C							
		Discharge: -20°C~55 °C							
Storge 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、CB							
Control Module FLS48100SCG1	Product Weight Approximate	46KG							
	Package Weight Approximate	60KG							
	Product Dimension	600X450X180 MM							
	Package Dimension	712X562X333 MM							
Battery Module FLS48100SMG1	Product Weight Approximate	46KG							
	Package Weight Approximate	50KG							
	Product Dimension	600X450X180 MM							
	Package Dimension	712X562X298 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



Wide Inverter Compatibility



Aerosol Fire Extinguishing System



Real-time Status via  
LCD Display & SOC Display



Module Design for  
Easy Expansion

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