

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							
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、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

Guangzhou Felicity Solar Technology Co.,Ltd.



www.felicitysolar.com



sales@felicitysolar.com



No. 2, Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, China (Only 10 Mins from Baiyun International Airport)



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