

# 51.2V

## LiFePO4 Battery Pack

### FLH Series

#### Features

- Multiple protections: over voltage, over current, external short circuit, reverse polarity/ground. fault, over temp.
- Battery Protection: internal short circuit, over voltage, over current, over temp, under voltage.
- Higher safe performance and longer cycle life with LFP battery.
- Flexible Installation: rack-mounting.
- Compatible with leading inverter brands.
- Up to 10-year long warranty.
- Configurable parameters and working mode via LCD touch screen.



**FLH48100UG1**



Model		FLH48100UG1		
Battery Type		LiFePO4		
Nominal Energy		5.12KWh		
Nominal Voltage		51.2V		
Nominal Capacity		100Ah		
Number of Battery Modules		4(Min)	8	12
System Nominal Energy		20.48kWh	40.96kWh	61.44kWh
System Nominal Voltage		204.8V	409.6V	614.4V
System Operating Voltage		192-230.4V	384-460.8V	576-691.2V
Recommend Charge/Discharge Current		50A		
Max. Continuous Charge/Discharge Current[1]		100A		
Peak Charge/Discharge current(15S)		120A		
Depth of Discharge(DOD)		≥ 95%		
Display Type		LED+LCD(Touch)		
IP Rating of Enclosure		IP21		
Operating Temperature Range		Charge:0~+55°C		
		Discharge:-20°C~+55°C		
Storage Temperature Range		0°C~+35°C		
Humidity		5%-95%		
Altitude		≤2000M		
Cycle Life[2]		≥ 6000		
Installation		Rack-Mounting		
Protection		Built-in smart BMS, Breaker		
Communication Port		RS485 / CAN		
Warranty Period		10 Year		
Certification		UN38.3、CB、CE-EMC、IEC 62619、EN IEC 62040-1		
Control Module FLH48100UCG1	Product Dimension	482.6x565x150MM		
	Package Dimension	687x562x269MM		
	Product Weight Approximate	10.3KG		
	Package Weight Approximate	16.7KG		
Battery Module FLH48100UMG1	Product Dimension	482.6x565x131MM		
	Package Dimension	687x562x250MM		
	Product Weight Approximate	41.3KG		
	Package Weight Approximate	45KG		
	Battery Designation[3]	IFpP/54/150/120/[(1P16S)NS]M/-20+50/95		
Rack FLH48100R13G1	Product Dimension	560×590×2137.5MM (13th Floor)		
	Package Dimension	165×640×2142MM		
	Product Weight Approximate	62KG		
	Package Weight Approximate	69.5KG		
Rack FLH48100R9G1	Product Dimension	560×590×1565.5MM (9th Floor)		
	Package Dimension	168×642×1570MM		
	Product Weight Approximate	46KG		
	Package Weight Approximate	52KG(Approx)		

[1] Max. Continuous Charge/Discharge Current/Power 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 12. (N≤12)

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

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

