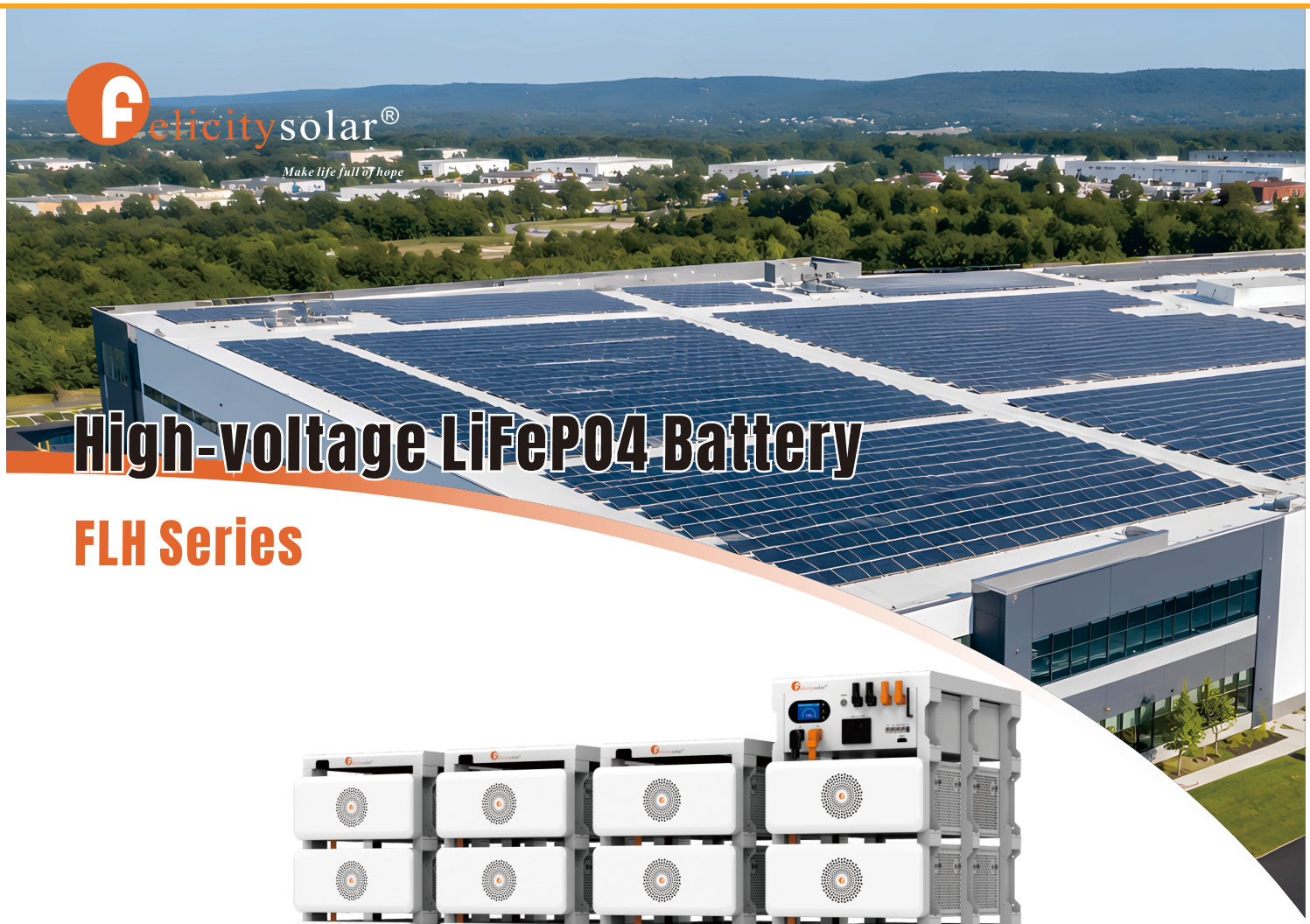

High-voltage LiFePO4 Battery

FLH Series

FLH48314UG1

Features

- Remote Monitoring via FSolar APP
- Peace of Mind with Fire Protection Module
- Pack-level Air Cooling, High-efficiency Thermal Management
- Max. 16 Clusters (4.1MWh) in Parallel
- ≥ 8000 Cycle Life
- User-friendly Touchscreen

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Official Website

Facebook

Model		FLH48314UG1MN[1]			
Battery Type		LiFePO4			
Nominal Energy		16.07kWh			
Nominal Voltage		51.2V			
Nominal Capacity		314Ah			
Number of Battery Modules		5(Min)	8	12	16(Max)[2]
System Nominal Voltage		256V	409.6V	614.4V	819.2V
System Operating Voltage		232~288V	371.2~460.8V	556.8~691.2V	742.4~921.6V
System Rated Energy		80.38kWh	128.61kWh	192.92kWh	257.22kWh
Rated Usabled Power		72.34kWh	115.74kWh	173.62kWh	231.49kWh
Recommend Charge/Discharge Current		157A			
Max. Continuous Charge/Discharge Current[3]		240A			
Depth of Discharge(DOD)		90%			
Display Type		LED+LCD (Touch)			
IP Rating of Enclosure		IP20			
Working Temperature Range		Charge: 0°C~+55°C			
		Discharge: -20°C~+55°C			
Storge Temperature Range		0°C~+35°C			
Humidity		5%~95%			
Altitude		⩽3,000m			
Cycle Life[4]		⩾ 8,000 Cycles			
Installation		Module Stacking			
Protection		Built-in Smart BMS, MCCB with shunt trip function, Fuse			
Communication Port		RS485 / CAN / Enthernet / WiFi(2.4G)[5]			
Warranty Period[6]		10 Years			
Certification		CE/ IEC 62619/IEC62040/UN38.3			
Control Module FLH48314UCG1	Product Dimension	780x525.4x180mm			
	Package Dimension	890x602x333mm			
	Product Weight Approximate	31.5±3%kg			
	Package Weight Approximate	42.8±3%kg			
Battery Module FLH48314UMG1	Product Dimension	819.5x525.4x260mm			
	Package Dimension	925x560x405mm			
	Product Weight Approximate	123±3%kg			
	Package Weight Approximate	144.5±3%kg			
	Battery Designation	IFpP74/176/120/[1P16S]E/-20+50/90			
FLH48314UG1 Accessory Kit	Package Dimension Approximate	867x602x318mm			
	Package Weight Approximate	52±3%kg			

[1] N=5,6,7,8,9,10,11,12,13,14 or 15. N is the quantity of battery module connected series and should not exceed 15.(5⩽N⩽16)

[2] Currently, the battery supports a maximum of 16 battery modules. For the entire energy storage system, confirm the inverter's maximum supported voltage range to determine the maximum number of battery modules that can be installed.

[3] Max. continuous charge/discharge current is affected by temperature and SOC.

[4] Test conditions: 0.5C Charging/Discharging@25±2°C,EOL70%.

[5] A 10M/100M Ethernet port (RJ45) is provided for connecting the system to your local network via a router or switch. This connection enables core functions: software upgrades, remote monitoring & diagnostics, and cloud data synchronization. Advanced cloud-based services are in development. Availability and activation will be announced by the supplier. Contact them for future software updates to enable these features.

[6] Refer to Felicitysolar's warranty policy for applicable conditions.

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