

51.2V

High-voltage LiFePO4 Battery

FLH Series

Features



Remote Monitoring
via FSolar APP



Peace of Mind with
Fire Protection Module



Pack-level Air Cooling,
High-efficiency Thermal
Management



Max. 4 Clusters
(964kWh) in Parallel



≥ 8000 Cycle Life



User-friendly
Touchscreen



FLH48314UG1



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	15(Max) ^[2]	
System Nominal Voltage	256V	409.6V	614.4V	768V	
System Operating Voltage	232~288V	371.2~460.8V	556.8~691.2V	696~864V	
System Rated Energy	80.38kWh	128.61kWh	192.924kWh	241.15kWh	
Rated Usabled Power	72.34kWh	115.74kWh	173.62kWh	217.03kWh	
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				
Storage Temperature Range	0°C~+35°C				
Humidity	5%~95%				
Altitude	≤3000M				
Cycle Life ^[4]	≥ 8000 Cycles				
Installation	Module Stacking				
Protection	Built-in Smart BMS, MCCB with shunt trip function, Fuse				
Communication Port	RS485 / CAN / Ethernet / 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	28.8KG			
	Package Weight Approximate	42.2KG			
Battery Module FLH48314UMG1	Product Dimension	819.5x525.4x260MM			
	Package Dimension	925x560x405MM			
	Product Weight Approximate	127.2KG			
	Package Weight Approximate	146.5KG			
	Battery Designation	IFpP74/176/120/[1P16S]E/-20+50/90			

[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≤15)

[2] Currently, the battery supports a maximum of 15 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.

