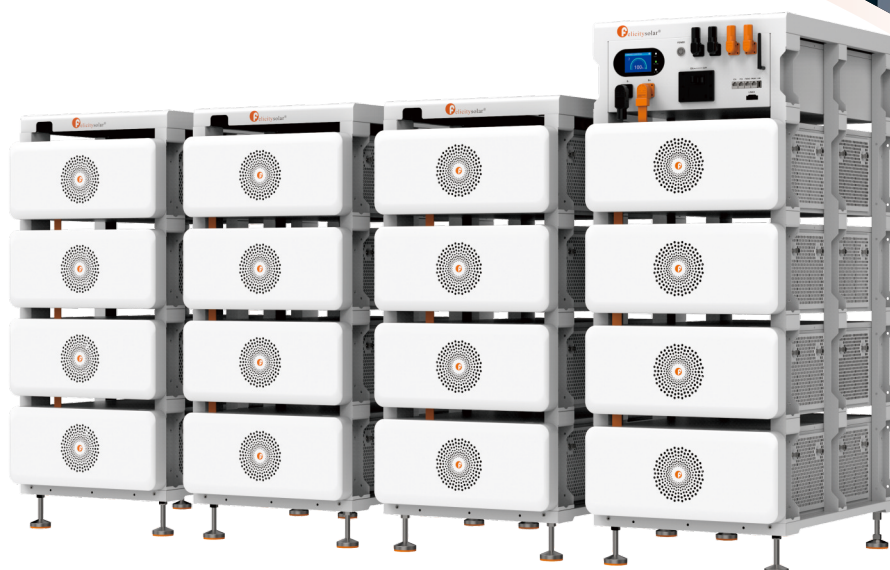


# High-voltage LiFePO4 Battery

## 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

| Model                                       |                               | FLH48314UG1MN <sup>[1]</sup>                            |              |              |                        |
|---------------------------------------------|-------------------------------|---------------------------------------------------------|--------------|--------------|------------------------|
| Battery Type                                |                               | LiFePO4                                                 |              |              |                        |
| Nominal Energy                              |                               | 16.07kWh                                                |              |              |                        |
| Nominal Voltage                             |                               | 51.2V                                                   |              |              |                        |
| Nominal Capacity                            |                               | 314Ah                                                   |              |              |                        |
| Number of Battery Modules                   |                               | 5(Min)                                                  | 8            | 12           | 16(Max) <sup>[2]</sup> |
| 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 / Wi-Fi(2.4G) <sup>[5]</sup>    |              |              |                        |
| Warranty Period[6]                          |                               | 10 Years                                                |              |              |                        |
| Certification                               |                               | CE/ IEC 62619/IEC62040/UN38.3                           |              |              |                        |
| Control Module<br>FLH48314UCG1              | Product Dimension             | 780x525.4x180mm                                         |              |              |                        |
|                                             | Package Dimension             | 890x602x333mm                                           |              |              |                        |
|                                             | Product Weight Approximate    | 31.5±3%kg                                               |              |              |                        |
|                                             | Package Weight Approximate    | 42.8±3%kg                                               |              |              |                        |
| Battery Module<br>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<br>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 16. N is the quantity of battery module connected series and should not exceed 16.(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.