

# Rack Type LV Battery System

GLR-314



## Features

### Safety & Reliable



Very Safe and High Quality with LiFePO4 technology & Smart BMS

### ≥6000Cycles,LongLiFe



Long cycle life with tier 1 brand with A grade cells and superior performance

### Compact Size & Easy Installation



Elegant Design  
Rack-mounted for quick installation

### Expand capacity flexibly



Parallel to expand capacity easily up to 241kwh

### High compatibility BMS



Seamless communication with most brands inverters

### Wide Applications



Self-Use, Peak Shaving, UPS, Backup, ESS, HESS, BESS, Bank, Hospital, School, Base Station

## Technical Data



| Battery Module Model                        |                | GLR-314                                                 |             |             |              |
|---------------------------------------------|----------------|---------------------------------------------------------|-------------|-------------|--------------|
| Main Parameter                              |                |                                                         |             |             |              |
| Cell Chemistry                              |                | LiFePO4                                                 |             |             |              |
| Module Energy (kWh)                         |                | 16.076                                                  |             |             |              |
| Module Nominal Voltage (V)                  |                | 51.2                                                    |             |             |              |
| Module Capacity (Ah)                        |                | 314                                                     |             |             |              |
| ITEM                                        |                | GLR-314-E16                                             | GLR-314-E32 | GLR-314-E48 | GLR-314-E64  |
| Battery Module Qty In Parallel ( Optional ) |                | 1                                                       | 2           | 3           | 4            |
| System Nominal Voltage (V)                  |                | 51.2                                                    |             |             |              |
| System Capacity (Ah)                        |                | 314                                                     | 628         | 942         | 1256         |
| System Energy (kWh)                         |                | 16.07                                                   | 32.15       | 48.22       | 64.30        |
| Charge/Discharge                            | Nominal        | 157A                                                    | 314A        | 471A        | 628A         |
| Current(A)                                  | Peak Discharge | 157A                                                    | 314A        | 471A        | 628A         |
| Other Parameter                             |                |                                                         |             |             |              |
| Recommend Depth of Discharge                |                | 90% DoD                                                 |             |             |              |
| Dimension (L*D*H)                           |                | 388*756*267                                             | 388*756*534 | 582*838*801 | 582*838*1068 |
| Battery Pack N.W.                           |                | 123.4kg                                                 | 246.8kg     | 370.2kg     | 493.6kg      |
| Master LED Indicator                        |                | 6LED ( SOC : 17% ~ 100% ) , 3LED ( ON/OFF, RUN, Alarm ) |             |             |              |
| Bluetooth                                   |                | Include                                                 |             |             |              |
| Communication Port                          |                | CAN/RS232/RS485                                         |             |             |              |
| IP Rating of Enclosure                      |                | IP20                                                    |             |             |              |
| Operating Temperature                       |                | Charge : 0°C~55°C,<br>Discharge : -20°C ~ 60°C          |             |             |              |
| Storage Temperature                         |                | -10 ~ 40°C                                              |             |             |              |
| Relative Humidity                           |                | 95%                                                     |             |             |              |
| Altitude                                    |                | ≤2000 m                                                 |             |             |              |
| Cycle Life                                  |                | ≥6000 90%DOD                                            |             |             |              |
| Warranty Period                             |                | 10Years                                                 |             |             |              |
| Installation                                |                | Rack Mounted                                            |             |             |              |
| Certification                               |                | CE/UN38.3/MSDS                                          |             |             |              |

## Technical Data

GLR-314-E80



GLR-314-E94



GLR-314-E112



GLR-314-E128



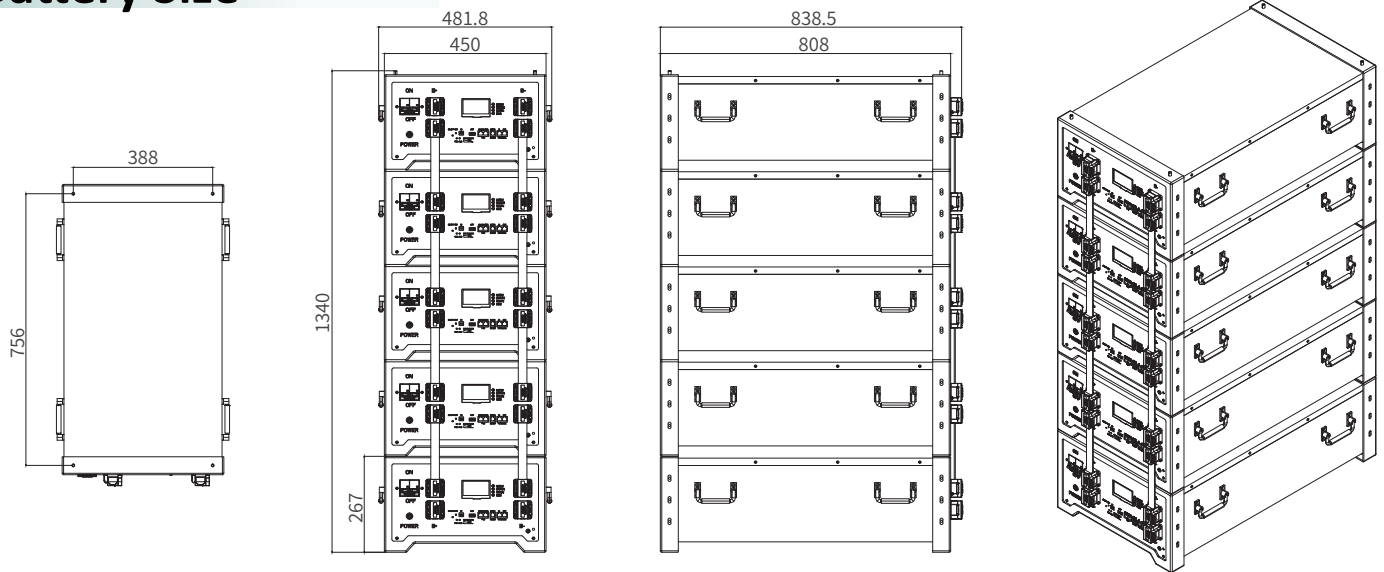
| Battery Module Model                      |                |
|-------------------------------------------|----------------|
| Main Parameter                            |                |
| Cell Chemistry                            |                |
| Module Energy (kWh)                       |                |
| Module Nominal Voltage (V)                |                |
| Module Capacity (Ah)                      |                |
| ITEM                                      |                |
| Battery Module Qty In Series ( Optional ) |                |
| System Nominal Voltage (V)                |                |
| System Capacity (Ah)                      |                |
| System Energy (kWh)                       |                |
| Charge/Discharge                          | Nominal        |
| Current(A)                                | Peak Discharge |

| Other Parameter              |  |
|------------------------------|--|
| Recommend Depth of Discharge |  |
| Dimension                    |  |
| Battery Pack N.W.            |  |
| Master LED Indicator         |  |
| Bluetooth                    |  |
| Communication Port           |  |
| IP Rating of Enclosure       |  |
| Operating Temperature        |  |
| Storage Temperature          |  |
| Relative Humidity            |  |
| Altitude                     |  |
| Cycle Life                   |  |
| Warranty Period              |  |
| Installation                 |  |
| Certification                |  |

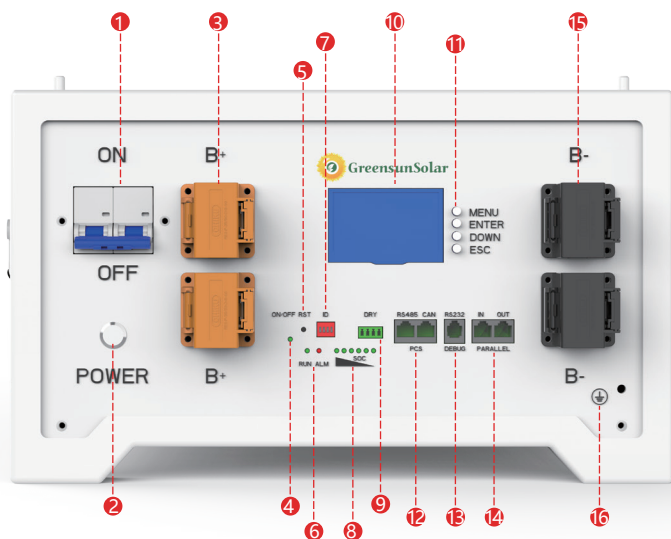
| GLR-314     |             |              |              |
|-------------|-------------|--------------|--------------|
|             |             |              |              |
| LiFePO4     |             |              |              |
| 16.076      |             |              |              |
| 51.2        |             |              |              |
| 314         |             |              |              |
| GLR-314-E80 | GLR-314-E94 | GLR-314-E112 | GLR-314-E128 |
| 5           | 6           | 7            | 8            |
| 51.2        |             |              |              |
| 1570        | 1884        | 2198         | 2512         |
| 80.38       | 94.46       | 112.53       | 128.61       |
| 785A        | 942A        | 1099A        | 1256A        |
| 785A        | 942A        | 1099A        | 1256A        |

|                                                         |              |              |              |
|---------------------------------------------------------|--------------|--------------|--------------|
| 90% DoD                                                 |              |              |              |
| 388*756*1335                                            | 388*756*1602 | 582*838*1869 | 582*838*2136 |
| 617.0kg                                                 | 740.4kg      | 863.8kg      | 987.2kg      |
| 6LED ( SOC : 17% ~ 100% ) , 3LED ( ON/OFF, RUN, Alarm ) |              |              |              |
| Include                                                 |              |              |              |
| CAN/RS232/RS485                                         |              |              |              |
| IP20                                                    |              |              |              |
| Charge : 0°C~55°C,<br>Discharge : -20°C ~ 60°C          |              |              |              |
| -10 ~ 40°C                                              |              |              |              |
| 95%                                                     |              |              |              |
| ≤2000 m                                                 |              |              |              |
| ≥6000 90%DOD                                            |              |              |              |
| 10Years                                                 |              |              |              |
| Rack Mounted                                            |              |              |              |
| CE/UN38.3/MSDS                                          |              |              |              |

## Battery Size



## Battery Overview



|    |                    |    |                         |
|----|--------------------|----|-------------------------|
| 1  | Breaker            | 2  | Power Switch            |
| 3  | Positive Connector | 4  | ON/OFF                  |
| 5  | Reset Button       | 6  | RUN/ALM                 |
| 7  | DIP                | 8  | SOC LED                 |
| 9  | DRY CONTACT        | 10 | Display Screen          |
| 11 | Screen Button      | 12 | CAN/RS485 Port          |
| 13 | RS232 Port         | 14 | IN/OUT Port For Paralle |
| 15 | Negative Connector | 16 | Grounding               |

## Battery Pack Default Accessories

|                                                                                     |                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>DC Power Cable:</b><br>Pair of 35mm <sup>2</sup> DC power cable(end is M10 copper terminal). The default length is 1500mm                                                                             |
|  | <b>Ground Gable:</b><br>6mm <sup>2</sup> Yellow-green ground line, The default length is 1500mm                                                                                                          |
|  | <b>RJ45 communication cable:</b><br>One RJ45 communication cable connect with hybrid inverter. The default length is 1500mm<br>One RJ45 parallel cable connect with battery. The default length is 200mm |
|  | <b>Simple stacking bracket:</b><br>Used for battery stacking and securing                                                                                                                                |



# Easy Expansion

