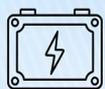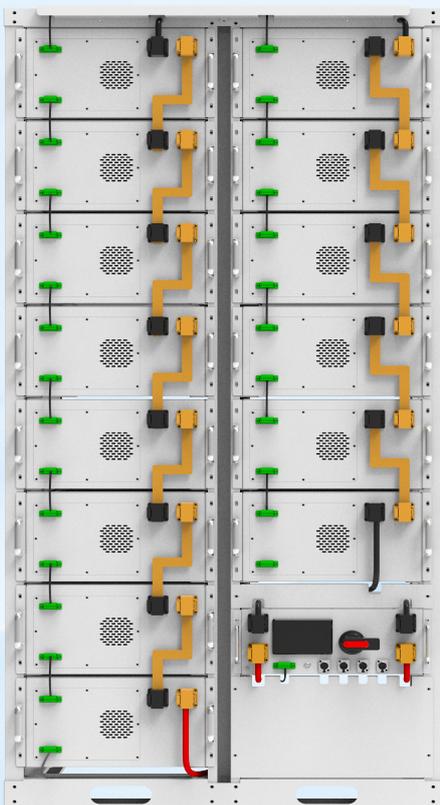# HV-RACK-314Ah

## High Voltage Rack Battery



**Convenient:** Quick installation, standard embedded design module is comfortable for installation and maintenance.

**Safe and Reliable:** Cathode material is made from LiFePO4 with safety performance and long cycle life, excellent performance of shallow charge and discharge.

**Intelligent BMS:** Protection functions including over-discharge, over-charge, over-current and over-high or low temperature. Automatically manage charge and discharge state and balance current and voltage of each cell.

**Eco-Friendly:** The whole module is non-toxic, non-polluting and environmentally friendly.

**Flexible Configuration:** Multiple battery modules can be in parallel for expanding capacity and power. Support USB upgrade, wifi upgrade (optional), remote upgrade (Compatible with mainstream inverters).

**Wide Temperature:** Working temperature range is from -10 to 55, with excellent discharge performance and cycle life.

| Model | HV-64.31 | HV-80.38 | HV-96.46 | HV-114.69 | HV-128.61 | HV-144.69 | HV-160.77 | HV-176.84 | HV-192.92 | HV-209 | HV-225.08 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Material System | Lithium Iron Phosphate | | | | | | | | | | |
| Module Nominal Voltage (V) | 51.2 | | | | | | | | | | |
| Module capacity (Ah) | 314 | | | | | | | | | | |
| Unit Model/Configuration | 64S 1P | 80S 1P | 96S 1P | 112S 1P | 128S 1P | 144S 1P | 160S 1P | 176S 1P | 192S 1P | 208S 1P | 224S 1P |
| System Nominal Voltage (V) | 204.8 | 256 | 307.2 | 358.4 | 409.6 | 460.8 | 512 | 563.2 | 614.4 | 665.6 | 716.8 |
| System Operating Voltage (v) | 176-227.2 | 220-284 | 264-340.8 | 308-397.6 | 352-454.4 | 396-511.2 | 440-568 | 484-624.8 | 528-681.6 | 572-738.4 | 616-795.2 |
| System Energy (kWh) | 64.31 | 80.38 | 96.46 | 112.54 | 128.61 | 144.69 | 160.77 | 176.84 | 192.92 | 209 | 225.08 |
| Charge/Discharge Current (A) | 100 | | | | | | | | | | |
| Charge/Discharge Current (A)Max | 200 | | | | | | | | | | |
| Operating Temperature | Charging: 0℃~55℃; Discharging: -10℃~55℃ | | | | | | | | | | |
| Communication | CAN/RS485/RS232 | | | | | | | | | | |
| Humidity | 5~85%RH Humidity | | | | | | | | | | |
| Altitude | ≤2000m | | | | | | | | | | |
| IP Class | IP20 | | | | | | | | | | |
| Dimensions (L*W*H, mm) | 575*800*1440 | 575*800*1800 | 1080*800*1250 | 1080*800*1250 | 1080*800*1530 | 1080*800*1530 | 1080*800*1800 | 1080*800*1800 | 1655*800*1530 | 1655*800*1530 | 1655*800*1530 |
| Approximate Weight (kg) | 530 | 665 | 795 | 930 | 1060 | 1195 | 1327 | 1460 | 1593 | 1726 | 1860 |
| Install Type | Rack Mounting | | | | | | | | | | |
| Storage Temperature (℃) | -20℃~60℃ | | | | | | | | | | |
| Recommended Discharge Depth | 80% | | | | | | | | | | |
| Cycle Life | 25±2℃, 6000 cycles@80%DOD,0.5C | | | | | | | | | | |