

# TG-Rack Series

5U Rack-Mounted  
High-Voltage Battery Pack



## Technical Features

- Cabinet Compatibility & Installation:
- Compatible with 19- / 21-inch standard communication cabinets. Standard 3U/5U size, with excellent cabinet integration adaptability.
- Cell & Service Life:
- Adopts long-life LFP (Lithium Iron Phosphate) cells, with outstanding cycle life. Designed service life exceeds 10 years.
- Modular Design & Maintenance:
- Fully modular architecture design. Independent hot-swappable modules. Capacity expansion available without shutdown, suitable for diversified power demands.
- Performance & Safety:
- Intrinsically safe LFP cells. Multiple protections against over-charge, overdischarge and short circuit for higher reliability.

## 5U Rack-Mounted High-Voltage Battery Pack 51314-R4~R15

| MODEL                           | TH-51314-R4                              | TH-51314-R5       | TH-51314-R6       | TH-51314-R7       | TH-51314-R8       | TH-51314-R9       |
|---------------------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nominal voltage                 | 204.8                                    | 256               | 307.2             | 358.4             | 409.6             | 460.8             |
| Cell mode/Configuration         | 3.2V314Ah /64S1P                         | 3.2V314Ah /80S1P  | 3.2V314Ah /96S1P  | 3.2V314Ah /112S1P | 3.2V314Ah /128S1P | 3.2V314Ah /144S1P |
| Capacity(Ah)                    | 314                                      |                   |                   |                   |                   |                   |
| Rate energy(kWh)                | 64.31                                    | 80.39             | 96.46             | 112.54            | 128.61            | 144.70            |
| Weight(Approx)(kg)              | 574                                      | 708               | 841               | 975               | 1128              | 1242              |
| Dimension W*D*H(mm)             | 550*776*1450                             | 550*776*1700      | 550*776*1960      | 550*776*2210      | 1100*776*1450     | 1100*776*1450     |
| Voltage range(Vdc)              | 172.8~230.4                              | 216~288           | 259.2~345.6       | 302.4~403.2       | 345.6~460.8       | 307.8~410.4       |
| MODEL                           | TH-51314-R10                             | TH-51314-R11      | TH-51314-R12      | TH-51314-R13      | TH-51314-R14      | TH-51314-R15      |
| Nominal voltage                 | 512                                      | 563.2             | 614.4             | 665.6             | 716.8             | 768               |
| Cell mode/Configuration         | 3.2V314Ah /160S1P                        | 3.2V314Ah /176S1P | 3.2V314Ah /192S1P | 3.2V314Ah /208S1P | 3.2V314Ah /224S1P | 3.2V314Ah /240S1P |
| Capacity(Ah)                    | 314                                      |                   |                   |                   |                   |                   |
| Rate energy(kWh)                | 160.77                                   | 176.84            | 192.92            | 209.00            | 225.08            | 241.15            |
| Weight(Approx)(kg)              | 1395                                     | 1510              | 1662              | 1780              | 1930              | 2045              |
| Dimension W*D*H(mm)             | 1100*776*1690                            | 1100*776*1710     | 1100*776*1960     | 1100*776*1960     | 1100*776*2210     | 1100*776*2210     |
| Voltage range(Vdc)              | 432~576                                  | 475.2~633.3       | 518.4~691.2       | 561.6~748.8       | 604.8~806.4       | 648~864           |
| Max.charge/discharge current(A) | 140                                      |                   |                   |                   |                   |                   |
| Scalability                     | Up to 4 clusters in parallel             |                   |                   |                   |                   |                   |
| Communication                   | RS485(B)-BAT/RS485(A)-PC/Canbus-Inverter |                   |                   |                   |                   |                   |
| Cycle life                      | 25±2°C,0.5C/0.5C,EOL70%≥6000             |                   |                   |                   |                   |                   |
| Design life                     | ≥15 years(25°C)                          |                   |                   |                   |                   |                   |
| Protection                      | BMS,Breaker                              |                   |                   |                   |                   |                   |
| Operation temperature(°C)       | Charge:0°C~50°C;Discharge:-20°C~50°C     |                   |                   |                   |                   |                   |
| Altitude(m)                     | ≤2000                                    |                   |                   |                   |                   |                   |
| Humidity                        | <95%(Non-condensing)                     |                   |                   |                   |                   |                   |
| Certificates                    | UN38.3,MSDS,CE-EMC                       |                   |                   |                   |                   |                   |

- Images for reference only, please refer to the actual product images in the order