

# STACK314

STACK314 is suitable for small commercial and industrial scenarios. Rackless and stackable design is easy to plug and play. It uses a high capacity 314Ah battery to support 12 clusters in parallel with a maximum capacity of 2.89MWh. Built-in aerosol fire extinguisher that eliminates fire hazards within 5s, all around protection for your electrical safety.



## Flexible Expansion

Up to 12 clusters in parallel,  
48.23kWh~2.89MWh capacity



## Ultra Safe

Intelligent fire extinguishing system,  
detects and extinguishes fire in 5s



## Easy Installation

Cable free connection between  
modules, plug-and-play



## Long Life

LFP cells, 8000+ cycles,  
10 years long warranty



## Module Mixing

Mixing of modules within  
three years



## Fast Charge/Discharge

Max. continuous charge/discharge  
current:200A

# SPECIFICATION

| Model                                           | STACK314                           |
|-------------------------------------------------|------------------------------------|
| Battery Type                                    | LiFePO4 (LFP)                      |
| Nominal Battery Energy                          | 16.076kWh                          |
| Usable Battery Energy                           | 15.272kWh                          |
| Nominal Capacity                                | 314Ah                              |
| Nominal Voltage                                 | 51.2V                              |
| Module Number per Cluster                       | 3~15 Pcs                           |
| Operating Voltage                               | 134.4V~864V                        |
| System Energy Range                             | 48.228kWh~803.8kWh                 |
| Recommended Charge & Discharge C Rate           | 0.45C (140A)                       |
| Max. Charge & Discharge C Rate                  | 0.64C (200A)                       |
| Peak Discharge Current (25°C)                   | 280A, 2min                         |
| Recommended Charge & Discharge Power            | 7.168kW                            |
| Max. Charge & Discharge Power                   | 10.24kW                            |
| Depth of Discharge (DOD)                        | 95%                                |
| Charging Temp. Range                            | 0°C~55°C/-20°C~55°C(optional)      |
| Discharging Temp. Range                         | -20°C~55°C                         |
| Net Weight (kg) <sup>[1]</sup>                  | 38+114*n                           |
| Single Cluster Dimension (W/D/H) <sup>[2]</sup> | 770/425/293+230*n                  |
| Protection Level                                | IP20                               |
| Communication                                   | CAN/RS485                          |
| Cycle Life <sup>[3]</sup>                       | ≥8000 Cycles                       |
| User Interface                                  | WIFI+APP                           |
| Safety Protection                               | Built-in aerosol fire extinguisher |
| Cooling Method                                  | Forced wind cooling                |
| Installation                                    | Cable-free stacking                |
| Expansion                                       | Up to 12 clusters in parallel      |
| Warranty Period <sup>[4]</sup>                  | 10 Years                           |

| Module                     | SBDU200       |
|----------------------------|---------------|
| Operating Voltage          | 134.4V~864V   |
| Maximum Continuous Current | 200A          |
| Dimension (W/D/H)          | 770/425/160mm |
| Weight                     | 19.2kg        |
| Protection Level           | IP20          |

[1] Net Weight of Expansion Base and Expansion Upper Cover: 18.5kg.

[2] Height of Expansion Upper Cover: 80mm, "n" stands for the number of battery modules, up to a maximum of 8. If the installation is on an upper floor, you will need to evaluate the floor weighing before determining the number of stacks.

[3] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL

[4] Refer to Dyness Warranty Letter

