

C&I Energy Storage Solutions

## OUTDOOR DC ENERGY STORAGE CABINET



Flexible  
Configuration



Outdoor  
Rating



Active Fire  
Protection



## HV48300SE MAX



### Safe

- Tier 1 automotive-grade LFP cells
- BMS multi-level monitoring and protection
- Multi-layer active fire suppression system



### All-Weather

- Built-in module-level fans and a forced-air cooling system(HVAC) ensure efficient thermal management in high-temperature environments
- C4-L corrosion resistance
- IP55 rating for indoor and outdoor installation



### Scalable

- Modular design enables seamless scaling to MWh-level capacity - Ideal for commercial and industrial-scale applications



### Smart

- Remote monitoring with PYTES Battery Cloud



### Flexible

- 3 standard configurations available to match different inverter input voltage ranges
- Universal mounting structure accommodates various inverter models

#### Applications



Hotel



Data  
Center



Agriculture



Utilities



C & I Facilities



VPP

| Battery Module (BMU) |                              |
|----------------------|------------------------------|
| Chemistry            | Lithium Iron Phosphate (LFP) |
| Nominal Voltage      | 51.2 V                       |
| Operating Voltage    | 44.8~57.6 V                  |
| Nominal Capacity     | 314 Ah                       |
| Energy               | 16.076 kWh                   |
| Weight               | 262 ± 11 lb / 119 ± 5 kg     |

| System                                  |                 |                 |             |
|-----------------------------------------|-----------------|-----------------|-------------|
| BMU Internal Configuration <sup>1</sup> | 7S2P            | 12S1P           | 15S1P       |
| Nominal Energy                          | 225.075 kWh     | 192.912 kWh     | 241152 kWh  |
| Nominal Output Power                    | 112.53 kW       | 96.45 kW        | 120.57 kW   |
| Operating Voltage                       | 313.6 ~ 403.2 V | 537.6 ~ 691.2 V | 672 ~ 864 V |
| Recommended Charge / Discharge Current  | 157 A*2         | 157 A           | 157 A       |
| Peak Charge / Discharge Current         | 205 A*2         | 205 A           | 205 A       |

| General                   |                                                          |                   |                   |
|---------------------------|----------------------------------------------------------|-------------------|-------------------|
| Dimensions (W x D x H)    | 69 x 57 x 93 inch / 1750 x 1450 x 2350 mm                |                   |                   |
| Weight                    | 5388 lb / 2444 kg                                        | 4667 lb / 2117 kg | 5454 lb / 2474 kg |
| Ingress Protection Rating | IP55                                                     |                   |                   |
| Anti-Corrosion Grade      | C4-L                                                     |                   |                   |
| Cycle Life <sup>2</sup>   | 6000 cycles                                              |                   |                   |
| Warranty <sup>3</sup>     | System: 3 Years <sup>4</sup><br>Battery module: 10 Years |                   |                   |

| Environmental         |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
| Operating Temperature | Charging: 32 °F ~ 131 °F / 0 °C~55 °C<br>Discharging: -4 °F ~ 131 °F / -20 °C~55 °C |
| Operating Altitude    | ≤ 6561.68 ft / 2000 m                                                               |
| Relative Humidity     | 5 % ~ 95 %, non-condensing                                                          |

| Fire Suppression System            |                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------|
| Level 1: Detection & Ventilation   | Hazardous gas detection activates ventilation system                                    |
| Level 2: Aerosol Suppression       | Heat and smoke detection activates aerosol fire suppression system                      |
| Level 3: Pressure Relief           | The explosion relief valve opens automatically if internal pressure exceeds safe limits |
| Level 4: Fire Hose Connection Port | Equipped with a fire hose connection port for firefighter hose attachment               |

| HVAC                      |              |
|---------------------------|--------------|
| Rated Cooling Capacity    | 5000 W (L35) |
| Rated Heating Capacity    | 2500 W       |
| Ingress Protection Rating | IP55         |

| Compliance      |                                                        |
|-----------------|--------------------------------------------------------|
| Certifications  | UL 9540 Ed.3 (2023), UL 9540A (2025), UL 1973, UN 38.3 |
| Code Compliance | NFPA 68 / 69 / 855                                     |
| Listings        | CEC, SGIP, OGPe                                        |

1. Flexible Configuration: Number of connectable BMUs per Battery Control Unit (BCU) ranges from 1 to 15. Voltage Range: 44.8 V x (1 ~ 15) ~ 57.6 V x (1 ~ 15). The HV48300SE MAX has 16 available positions for BMU and BCU. The maximum configuration per HV48300SE MAX cabinet is 15S1P / 7S2P.

2. Operating conditions: 77 °F / 25°C, 0.5 P @ 90% DOD, ret @70% (EOL)

3. Warranty: 3 years for the cabinet system (excludes the BMU and BCU), 10 years or 6000 cycles for the battery (whichever comes first).

4.Optional 2 year warranty extension available for purchase.

