

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 forced-air cooling system (HVAC) ensure efficient thermal management and reliable operation in high-temperature environments
- IP55 rating for indoor and outdoor installation



Scalable

- Scale seamlessly to MWh-level capacity with our modular battery system — ideal for commercial and industrial-scale applications



Smart

- Remote monitoring with PYTES Battery Cloud



Flexible

- Available in 3 standard configurations, plus with the flexibility to accommodate different inverter voltage input ranges
- Universal mounting structure accommodates various inverter models

Applications



Hotel



Data
Center



Agriculture



Utilities



C & I Facilities



VPP

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

System			
Battery Pack Internal Configuration ¹	7S2P	12S1P	15S1P
Nominal Energy	225.075 kWh	192.912 kWh	241.152 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		
Cycle Life ²	6000 cycles		
Warranty ³	Battery system: 3 Years ⁴ Battery module: 10 Years		

Environmental	
Operating Temperature	Charging: 32 °F ~ 131 °F (0 °C~55 °C) 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, OGP _e

1. Flexible Configuration: Number of connectable BMUs per BCU ranges from 1 to 15. Voltage Range: 44.8 V x (1 ~ 15) ~ 57.6 V x (1 ~ 15). The HV48300SE MAX cabinet has 16 layers. 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 whole battery system, 10 years or 6000 cycles for the battery (whichever comes first).
4.Optional 2 year warranty extension available for purchase.

