

HV48300 Max SE

Adaptable C&I Solution



Features



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 industrial-scale applications



Smart

- Remote monitoring with PYTES Battery Cloud



Flexible

- Multiple battery string configurations support a wide range of operating voltage
- Universal mounting structure accommodates various inverter models

HV48300 Max SE Specs

Battery Module

Battery Chemistry	Lithium Iron Phosphate (LFP)						
Battery Module Energy	16.076kWh						
Battery Module Nominal Voltage	51.2V						
Battery Module Operating Voltage	46.5V ~ 56.8V						
Battery Module Nominal Capacity	314Ah						
Weight (lb / kg)	262 ± 11 / 119 ± 5						

System

Battery Module ^[1]	<input type="checkbox"/> (1P7S)×2	<input type="checkbox"/> 1P10S	<input type="checkbox"/> 1P11S	<input type="checkbox"/> 1P12S	<input type="checkbox"/> 1P13S	<input type="checkbox"/> 1P14S	<input type="checkbox"/> 1P15S
Rated Energy	112.53kWh×2	160.76kWh	176.84kWh	192.92kWh	208.99kWh	225.07kWh	241.15kWh
Rated Power	56.26kW×2	80.38kW	88.42kW	96.46kW	104.49kW	112.53kW	120.57kW
Operating Voltage	325.5V~397.6V	465V ~ 568V	511.5V ~ 624.8V	558V ~ 681.6V	604.5V~738.4V	651V ~ 795.2V	697.5V~ 852V
Rated Charge/Discharge Current	157A	157A	157A×2	157A×2	157A×2	157A×2	157A×2
Peak Charge/Discharge Current	205A	205A	205A×2	205A×2	205A×2	205A×2	205A×2

General

Dimensions (W x D x H)	68 x 57 x 92in (1750 x 1450 x 2350mm)						
Weight (lb / kg)	5471 / 2482	4241/1924	4504/2043	4766/2162	5028 / 2281	5291 / 2400	5553/ 2519
Ingress Protection Rating	IP55						
Cycle Life ^[2]	6000 cycles						
Warranty ^[3]	Battery system: basic warranty 3years/ advantage warrenty 5 years ^[4] Battery module: basic warranty 5years/ advantage warrenty 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 (2000m)						
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	5000W (L35)						
Rated Heating Capacity	2500W						
Ingress Protection Rating	IP55						

Compliance

Certifications	UL 9540A , UL 1973 , UN 38.3 , IEC62619 , CE EMC , IEC63056 , IEC62477 , IEC62040						
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[1]: Flexible Configuration:

1P (1 x BCU): Number of connectable BMUs ranges from 1 to 15. Voltage Range: 44.8 V × (1 ~ 15) ~ 57.6 V × (1 ~ 15).

2P (2 x BCU in parallel): Number of connectable BMUs ranges from 1 to 7 for each BCU. Voltage Range: 44.8 V × (1 ~ 7)~57.6 V × (1 ~ 7).

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

[3]: Basic warranty 5 years/ advantage warrenty 10 years; or 6000 cycles (Condition: 0.5P/0.5P, 90% DOD[Recommended SOC Range=10~100%], 20~35°C, ret 70%.)

[4]: Optional 2 year warranty extension available for purchase.