

HV48300

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 Specs

Battery Module				
Battery Chemistry	Lithium Iron Phosphate (LFP)			
Battery Module Energy	14.336kWh			
Battery Module Nominal Voltage	51.2V			
Battery Module Operating Voltage	44.8 ~ 57.6V			
Battery Module Nominal Capacity	280Ah			
Weight (lb / kg)	255 ± 11 / 116 ± 5			
System				
Max. Battery Pack Internal Configuration ^[1]	1P5S	~	1P15S	2P5S ~ 2P7S
Rated Energy	71.680kWh		215.040kWh	143.360kWh 200.704kWh
Rated Power	35.840kW		107.520kW	71.680kW 100.352kW
Operating Voltage	224~288V		672 ~ 864V	224~288V 313.6 ~ 403.2V
Rated Charge/Discharge Current	140A		140A	140A x 2 140A x 2
Peak Charge/Discharge Current	170A		170A	170A x 2 170A x 2
General				
Dimensions (W x D x H)	68 x 57 x 92in (1750 x 1450 x 2350mm)			
Weight (lb / kg)	1873.9 / 850		5454.2 / 2474	2129.6 / 966 5198.5 / 2358
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 (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	GB/T36276 , IEC 62619 , UL 9540A , UL 1973 , UN 38.3			

[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]: 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.