

Adaptable C&I Solution

OUTDOOR DC ENERGY STORAGE CABINET



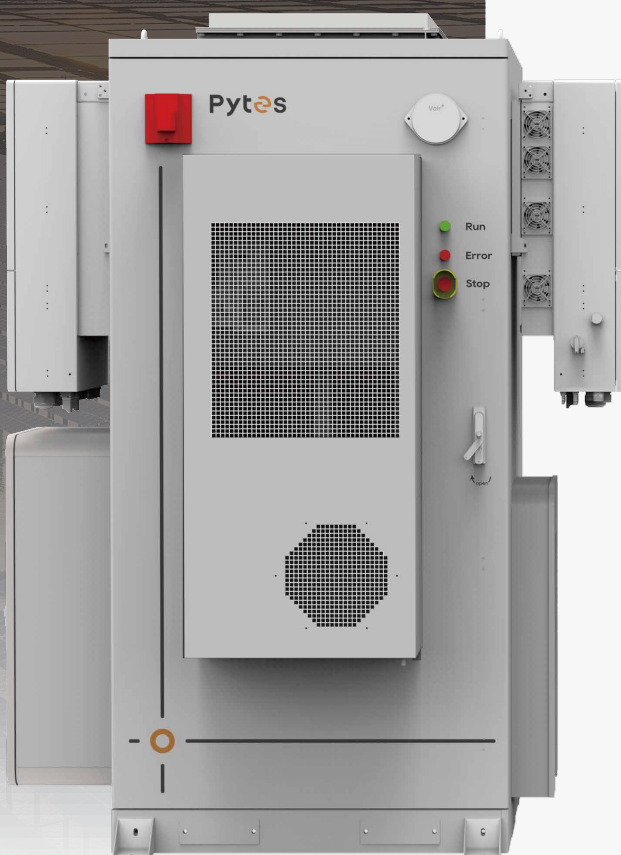
Flexible
Configuration



Outdoor
Rating



Active Fire
Protection



HV48300



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

- Multiple battery string configurations support a wide range of operating voltage
- 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 Energy	14.34 kWh	
Battery Module Nominal Voltage	51.2 V	
Battery Module Operating Voltage	44.8~57.6 V	
Battery Module Nominal Capacity	280 Ah	
Weight (lb / kg)	255 ± 11 / 116 ± 5	
System		
Max. Battery Pack Internal Configuration ¹	7S2P	15S1P
Rated Energy	200.70 kWh	215.04 kWh
Rated Power	100.35 kW	107.52 kW
Operating Voltage	313.6 ~ 403.2 V	672 ~ 864 V
Rated Charge/Discharge Current	140 A*2	140 A
Peak Charge/Discharge Current	170 A*2 (@60 s)	170 A (@60 s)
General		
Dimensions (W x D x H)	47 x 43 x 89 in (1200 x 1100 x 2250 mm)	
Weight (lb / kg)	5310.94 / 2409	5511.56 / 2500
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: -13 °F ~ 131 °F (-25 °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	
Certification		
Certifications	UL 9540 Ed.3 (2023), UL 9540A, UL 1973, UN 38.3	

1. Flexible Configuration:

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

2P (2*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.

