DISCOVER
ENERGY SYSTEMS

# AES CABINET FOR PCS & EMS INTEGRATION

## Scalable Outdoor Industrial Battery Storage up to 1,500 VDC

The AES Cabinet is a compact, modular outdoor BESS for community, commercial, industrial and utility-scale projects. Available in 318, 372 and 426 kWh configurations, it is engineered for DC systems up to 1,500 VDC and integrates with a wide range of third-party Power Conversion Systems (PCS), EMS and SCADA platforms. Build systems from 1.5 MWh and above for self-consumption, grid services, microgrids and EV charging infrastructure.

| | CAB-266 | CAB-318 | CAB-372 | CAB-426 |
|---|---|---|---|---|
| |  |  |  |  |
| **Battery Configuration** | **260S1P (5 packs @ 52S1P)** | **312S1P (6 packs @ 52S1P)** | **364S1P (7 packs @ 52S1P)** | **416S1P (8 packs @ 52S1P)** |
| **Battery Chemistry** | Lithium Iron Phosphate | | | |
| **Nominal Energy Capacity** | 266 kWh | 318 kWh | 372 kWh | 426 kWh |
| **Usable Energy Capacity** | 261 kWh | 313 kWh | 366 kWh | 418 kWh |
| **Battery Max. Continuous Power** | 131 kW | 157 kW | 183 kW | 209 kW |
| **Round-trip Efficiency** | 94% (25°C, 0.5C) | | | |
| **System Nominal Voltage** | 832.0 V | 998.4 V | 1164.8 V | 1331.2 V |
| **System Operating Voltage** | 780 - 897 V | 936 - 1,076.4 V | 1,092 - 1,255.8 V | 1,248 - 1,435.2 V |
| **Nominal Cell Capacity** | 320 Ah | | | |
| **Usable Cell Capacity** | 314 Ah | | | |
| **Max. Continuous Current** | 157 A (C/2) | | | |
| **Internal Fuse Rating** | 315 A | | | |

## MECHANICAL SPECIFICATIONS

| | | | | |
|---|---|---|---|---|
| **Product Dimensions (WxDxH)** | 1,300 x 1,300 x 2,374 mm ( 51 x 51 x 93 in ) | | | |
| **Net Weight** | 2,850 kg (6,285 lb) | 3,190 kg (7,050 lb) | 3,570 kg (7875 lb) | 3,930 kg (8675 lb) |
| **Material and Finish** | Steel - Corrosion Resistant Powder Coat | | | |
| **Thermal Management System** | Integrated Liquid Chiller/PTC System | | | |
| **Max TMS Power Input** | 4.5 kW (Cooling) \| 3.5 kW (Heating) | | | |
| **Coolant Type** | 50% Water / 50% Ethylene Glycol | | | |
| **Chiller Refrigerant** | R-513A | | | |
| **Operating Temperature** | -30°C to 55°C (-22°F to 131°F) | | | |
| **Storage Temperature** | -20°C to 45°C (0°F to 110°F) | | | |
| **Relative Operating Humidity** | 0-95% (non-condensing) | | | |
| **Ingress Rating** | Outdoor IP55 (NEMA 3R) | | | |
| **Noise Level @ 1m** | ≤ 75 dB | | | |
| **Auxiliary AC Input** | 208/240 VAC Single Phase | | | |
| **Certifications & Testing** | UN38.3, UL1973, UL9540A, UL9540 DC ESS, IEC62619, IEC62933, IEC61000 | | | |

## INTEGRATION

- **Open Architecture.** Pair with your choice of third-party bidirectional PCS, EMS and SCADA to build a system architecture tailored to the project..
- **Wide DC Voltage Range.** Three configurations from 998 VDC to 1,331 VDC nominal match a broad range of PCS DC input windows, up to 1,500 VDC systems.
- **Standard Communication.** CAN and RS485 interfaces report SoC, voltage, current, temperature and charge/discharge limits to the PCS and EMS.
- **Modular Scaling.** Parallel cabinets on the DC bus or across multiple PCS blocks to meet project power and energy targets from 1.5 MWh upward.

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