DISCOVER
ENERGY SYSTEMS

AES CABINET FOR HYBRID INVERTER SYSTEMS

Scalable Outdoor Commercial Battery Storage under 1,000 VDC

The AES 210HV and AES 266HV are high-voltage outdoor battery cabinets built to connect directly to three-phase commercial and industrial hybrid inverters. Each cabinet combines LFP battery modules, BMS, DC distribution, fuse protection, liquid thermal management and fire safety in one pre-engineered enclosure. With no separate PCS, microgrid controller or DC combiner required, installation is as straightforward as a residential system. Start at 209 kWh and scale to 4+ MWh for systems under 1,000 VDC.

	AES 160HV	AES 210HV	AES 266HV
			
Battery Configuration	**156S1P (3 packs @ 52S1P)**	**208S1P (4 packs @ 52S1P)**	**260S1P (5 packs @ 52S1P)**
Battery Chemistry	Lithium Iron Phosphate		
Nominal Energy Capacity	160 kWh	212 kWh	266 kWh
Usable Energy Capacity	157 kWh	209 kWh	261 kWh
Battery Max. Continuous Power	79 kW	104 kW	131 kW
Round-trip Efficiency	94% (25°C, 0.5C)		
System Nominal Voltage	499.2 V	665.6 V	832.0 V
System Operating Voltage	468 - 538.2 V	624 - 717.6 V	780 - 897 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	2,130 kg (4,700 lb)	2,490 kg (5,490 lb)	2,850 kg (6,285 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		

- **Simple Installation.** Battery, BMS, DC distribution, fusing, thermal management and fire safety in one cabinet. No external PCS, microgrid controller, EMS or DC combiner required.
- **Scalable.** Grow from 209 kWh to 4+ MWh by adding cabinets and inverter blocks without redesign.
- **Faster ROI.** Fewer components mean less installation time, labour and balance-of-system cost.
- **Applications.** Peak Shaving & Demand Charge Management, Backup Power & Resilience, Microgrid & Off-Grid, EV Charging Support.

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