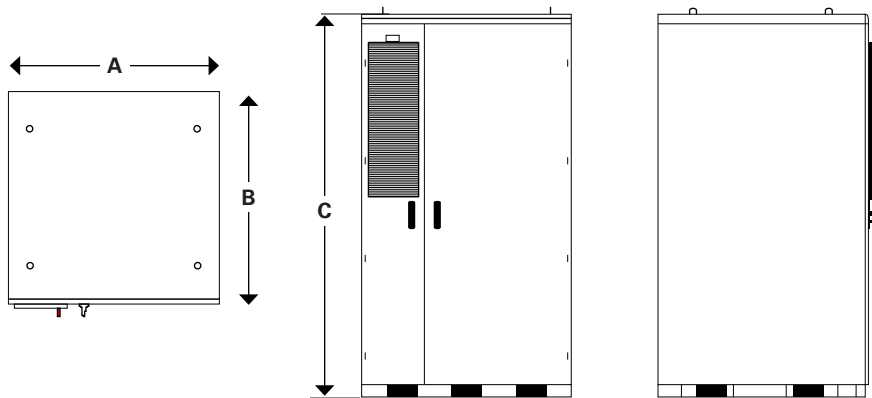


Energy Storage for Residential, Community, Commercial and Industrial Applications

The Discover Energy Systems AES Energy Storage Cabinet is a modular system with a nominal energy range from 53 to 418 kWh, compatible with 150 to 1500 Volt inverters. The AES Energy Storage Cabinet is shipped as a complete product, significantly reducing on-site installation time and costs. The integrated liquid cooling and heating system ensures consistent cell operation across a wide operating temperature range.

MECHANICAL DRAWINGS



FEATURES AND BENEFITS

MODULAR

- 53 kWh to 418 kWh Preassembled Battery Cabinets. Custom configurations available.

SCALABLE

- Parallel Up to Sixteen Battery Cabinets 6.7 MWh.

COMPATIBLE

- C&I Hybrid Inverters with 150 Vdc to 1500 Vdc Battery Input.

OUTDOOR

- NEMA 3R (IP55), or Cost Effective Indoor (IP20).

EFFICIENT

- Liquid Cooling / Heating of LFP Battery Module Cells.

OPTIMIZED

- Multi-tiered Battery Management System.

SAFE

- Heat and Smoke Detection, Passive Deflagration Ventilation, Fire Suppression.

CERTIFIED

- UL1973, UL9540a (Pending).

ELECTRICAL SPECIFICATIONS

Model	UTL-53	UTL-105	UTL-157	UTL-209	UTL-261	UTL-314	UTL-366	UTL-418
Cell Configuration	1P52S	1P104S	1P156S	1P208S	1P260S	1P312S	1P364S	1P416S
Chemistry	LiFePO ₄							
Capacity (Ah)	314							
Energy (kWh) at 0.5C	52.5	104.5	156.8	209.0	261.3	313.5	365.8	418.0
Nominal Voltage (V)	166.4	332.8	499.2	665.6	832.0	998.4	1164.8	1331.2
High/Low Voltage Range (V)	187.2 / 135.2	374.4 / 270.4	561.6 / 405.6	748.8 / 540.8	936.0 / 676.0	1,123.2 / 811.2	1,310.4 / 946.4	1,497.6 / 1,081.6
Max Charge/Discharge Current (A)	157							
Nominal Charge/Discharge Current (A)	157							
Communications	Ethernet, ModbusTCP, Modbus RTU							

CABINET SPECIFICATIONS

Length (A)	51.18 in (1,300 mm)
Width (B)	51.18 in (1,300 mm)
Height (C)	92.71 in (2,355 mm)
Aproximate Weight (lb / kg)	2200 ~ 9000 / 1000 ~ 4100

ENVIRONMENTAL SPECIFICATIONS

Noise	≤ 75 dB
Altitude	≤ 6562 ft (≤ 2000 m)
IP Rating	NEMA 3R / IP55
Thermal Management	Integrated Liquid Cooling and Heating System
Cabinet Scalability	Up to 16 cabinets / 6.7 MWh
Fire Suppression	Heat and Smoke Detection, Passive Deflagration Ventilation, Fire Suppression

CERTIFICATION STANDARDS

Certification Standards (Pending)	UL1973, UL9540A
Shipping Classification	UN 38.3, UN3480, Class 9 (Lithium batteries)

