



AuroraCell Cleo UPS Rack

Sodium-Ion UPS Backup & Indoor BESS System

High-power, fully passive sodium-ion DC rack system for ultra-safe UPS backup and commercial energy storage applications.



24-60 kWh

Energy per rack



120-300 kW

Continuous power



Sodium-ion

70Ah Na-ion cell



Passive Cooling

No HVAC / liquid cooling



>30,000 Cycles

@ 100% DoD



Big power. Tiny footprint. Zero-risk sodium-ion backup.

Product Overview

AuroraCell Cleo UPS Rack is a fully modular sodium-ion DC rack system designed for UPS backup and indoor C&I energy storage. The system supports rack-level configurations from 4S to 10S and can be stacked in series or parallel to meet project-specific voltage, power and energy requirements.



Key Highlights



Fully passive design with no HVAC or liquid cooling.



Ultra-safe sodium-ion architecture with 0% discharge capability.



Ultra-long lifetime: >30,000 cycles at 100% DoD, no derating.



Modular 4S to 10S rack configuration with series and parallel stacking.



Wide operating range: 0-60C charge and -40-60C discharge.



Scalable Rack Configuration

Configure Cleo from 24 kWh to 60 kWh and 120 kW to 300 kW per rack.

Per Rack	4S	5S	6S	7S	8S	9S	10S
Energy	24	30	36	42	48	54	60 kWh
Power	120	150	180	210	240	270	300 kW
Voltage	240-480	300-510	360-612	420-714	480-816	540-918	600-1000V

Technical Data

Parameter	Specification
 Chemistry	AuroraCell 70Ah Sodium-ion Cell
 Capacity	70Ah / 6 kWh per module
 Nominal voltage	87 V
 Voltage range	60 - 102 V
 Rack height	4U
 Dimensions (L x W x D)	541.02 x 177.8 x 642.62 mm
 Max power (continuous)	2C charge / 5C discharge
 Max discharge power	30 kW continuous
 Max charge power	12 kW continuous
 Cycle life	>30,000 cycles at 100% DoD (no derating)
 Calendar life	25 years to 80% SoH
 Temperature range	0-60C charge, -40-60C discharge
 Cooling method	Passive - no HVAC or liquid cooling
 Communication	RS485 / CANBus
 Configurability	Series: up to 10; Parallel: up to 10
 Certifications	UN38.3, UL1973, UL9540A

Certifications



UN38.3



UL1973



UL9540A

