



Eos Indensity Core™

Stackable, modular design for extreme density energy storage

The Indensity Core energy storage unit packs our Eos Z3™ battery modules and Eos DawnOS™ platform into a compact form factor. Its ingenious combination of zinc chemistry, configurable design, and AI-enabled software underpins the Eos Indensity™ gigawatt-scale energy storage architecture—delivering breakthrough density, scale, flexibility, and safety.

The self-contained, weather-ready Eos Indensity Core can be moved with a standard forklift and configured to take advantage of tight footprints and available vertical space. A plug-and-play approach to electrical and communications connections simplifies installation and integration.



Eos Indensity Core™ Unit Specifications

DC Characteristics	Battery Technology	Eos Znyth™ - Zinc Hybrid Cathode			
	State-of-Charge Range	0 – 100%			
	Operating Voltage Range	1150 to 1500 Vdc			
	Charge/Discharge Voltage, Nominal	1200 Vdc			
	Maximum Charge Power	33.3 kW			
	Maximum Discharge Power	25.0 kW			
	Maximum Discharge Energy ¹	133.34 kWh			
	Discharge Duration	4-hr	6-hr	8-hr	10-hr
	Discharge Power	25.0 kW	20.8 kW	16.7 kW	13.3 kW
	Available Discharge Energy Capacity	100.00 kWh	125.00 kWh	133.34 kWh	133.34 kWh
Max. Round Trip Efficiency in 20-80-20% SoC cycles ²	81%	85%	86%	88%	
Max. Fault Current Allowed from External Source	100 kA @ DC 1500 V (L/R ≈ 6 ms)				
Number of DC Inputs	1				
Mechanical	String Configuration	4P28S			
	Dimensions	70H x 54W x 75D in / 178H x 137W x 189D cm			
	Weight	7,000 lbs. / 3,176 kg			
	Stacking	On Steel Super Structure			
	Seismic Rating	CBC/IBC and ASCE 7 Compliant			
Environmental	Operating Ambient Temperature Range	-4 to 122°F / -20 to 50 °C			
	Operating Ambient Relative Humidity	5 to 95 % (non-condensing)			
	Storage Temperature Range	-40 to 158°F / -40 to 70 °C			
	Elevation	6,560 ft / 2,000 m			
	Protection Degree (IEC60529)	Outdoor: IP55			
	Chemical and Corrosion Resistance (ISO 12944-6)	C3 Standard; C5 optional			
	Expected Life	25 years			
Software Control	BMS, System Control	Eos DawnOS™ Advanced Controls			
	BMS Response Time ³	<5 ms			
	Communication Protocol	Modbus TCP/IP			
	Analytics and Optimization Platform	Eos DawnOS™ Insights			
Auxiliary Systems	Auxiliary Power Interface	Primary: 480Vac 3-ph, Backup: UPS			
	Thermal Management	Forced Ambient Air			
Safety	Codes and Certifications ⁴	UL 1973 and UL 9540 (supported by UL 9540A and TM-2)			
Warranty	Manufacturer's	10 years, extended warranty available			
	Performance Guarantee	Available			
	Long Term Service Agreement	Available			

1 Maximum value depends on optimum discharge power levels and SoC usage range
 2 Maximum value achieved within designated SoC usage range while operating at optimum temperature, discharge power levels, depth of discharge, use case, as well as upsizing relative to capacity performance guarantee.

3 Does not account for response lag due to AC hardware communications
 4 Certifications pending and in process



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