

Product Overview

The ENRACK Solution, powered by electrostatic, solid-state graphene, is a compact, instantaneous power storage system ideal for UPS applications. It delivers nanosecond-level response times, ensuring seamless transitions for critical systems. Boasting ultra-high density and no cooling requirements, ENRACK saves significant floor space and delivers faster ROI.

This arrangement of power racks provides a solid 10-minute backup to a 1500kW load—without performance drops, fire risk, or tanking degradation. No parasitic loads and full depth of discharge mean you get more power without the side effects of chemical batteries.

Technical Specifications

Performance

Voltage (Nominal)	500 Vdc
Maximum Charge Voltage	540 Vdc (Adjustable)
Discharge Cut-Off Voltage	440 Vdc (Adjustable)

CENTAURI View Software

Module Monitoring

Current, Voltage, Temperatures, CAN ID, Graphs, Daily Energy Consumed

System Monitoring

Instant Generator Solar Power, Daily Generated Solar Energy, Daily Consumption Solar Energy, Total Generated Solar Energy from the start, Daily Energy Consumption

Environmental Specifications

Cell Operating Temperature	-22°F to 140°F (-30°C to 70°C)
Maximum Charge Voltage	Non-Condensing

Safety Performance

Over/Under Voltage	Hardware protection, DC line will be disconnected
Overcurrent	Hardware protection, DC line will be disconnected
Overtemperature	Hardware protection, DC line will be disconnected
Alarm	Audible alarms in the event of Over/under-Voltage, Over-Current, Over Temperature

Space requirement for 6 racks

Dimensions W x D x H (in)	188.98" x 35.43" x 84.02"
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Compliance Information

EN55032:2015, EN55024:2010, EN61000-4-2:2009, EN61000-4-2:2009, EN61000, EN61000:2008+A2:2010

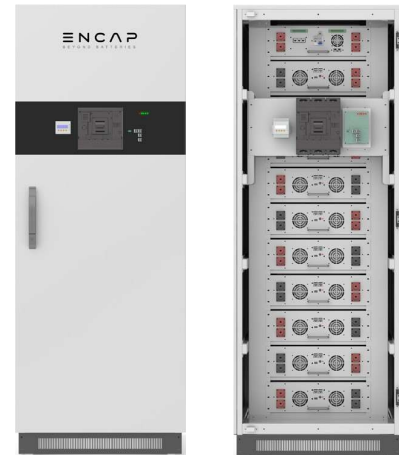
ENRACK Overview

S/N	Items	Description	Quantity
1	Modules Rack	Racks	6 Unit
		Storage Capacity	ENCAP 48 V\800A
		Contactor Box	6 Units
		Subcontroller	6 Units
2	MCCB 3P/1000A		12 Units

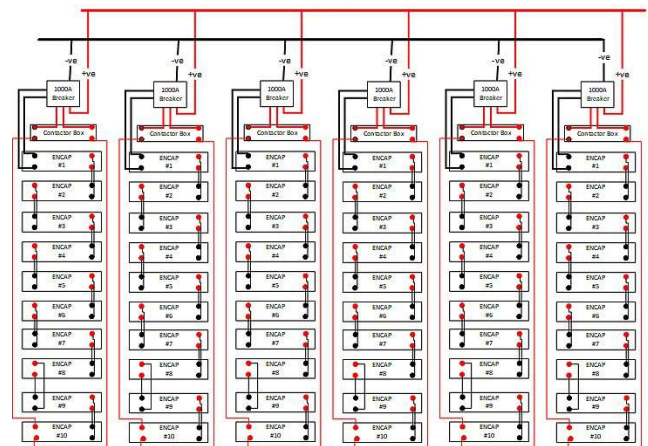
Single Cabinet Dimensions:

W: 31.50"
D: 34.43"
H: 84.02"

Inside View



1500kW-500Vdc for 10mins



Strings Connection Layout

Features

- High Power Density**
Compact design with maximum energy efficiency.
- Robust Safety Mechanisms**
Includes overvoltage, short-circuit, and thermal protections.
- Fast Response Time**
Instant power availability for critical loads.
- Scalable Architecture**
Easily expandable for increased capacity.
- Advanced Monitoring**
Remote diagnostics and real-time status monitoring via CANBUS/MODBUS/ENCONNECT.

Applications

- Data Centers**
Ensures uninterrupted power during transfer switching.
- UPS Systems**
Enhances reliability for mission-critical applications.