

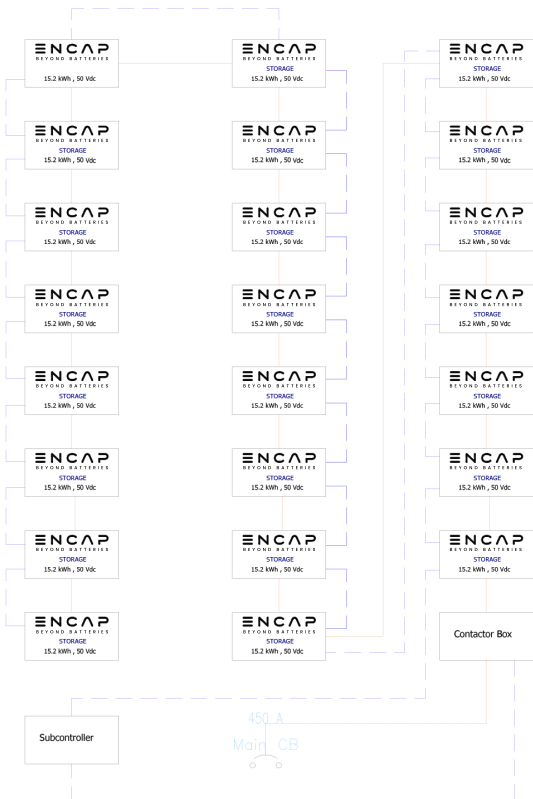
Weight: 3000kg

Dimensions (WxDxH)mm: 950x2100x2500

Envault by Enercap is a modular energy storage cabinet engineered for outdoor and utility-scale applications. It features a rugged, skid-mountable design and comes in pre-assembled units for rapid installation and efficient deployment. Envault delivers the lowest LCOS in the industry, incorporates a thermal insulation coating, and includes Encontactor protection for enhanced safety and performance.



Single Line Diagram (SLD)



Envault Performance Specifications

DC Energy	345 kWh
Voltage Range	1104 Vdc to 1242 Vdc
DC Voltage (Nominal)	1150 Vdc

Charge & Discharge Characteristics

Maximum Continuous Charge Current	300 A (~1C)
Maximum Continuous Discharge Current	300 A (~1C)
Charge/Discharge Method	CC/CP/VP

EN-Connect Software

Module Monitoring	Total Voltage Individual Cell Voltages Current Temperatures SOC and Energy Consumed
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Module Environmental Specifications

Operating Temperature Range	-30°C~ +70°C
Operating Humidity	Non-Condensing

Smart Features

Communication	CANBUS
Alarm	Audible alarms in the event of Over/under-Voltage, Over-Current, Over Temperature

Safety Performance

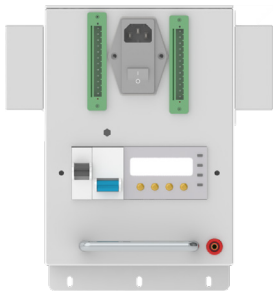
Module Level Protection Via Encontroller	Over Temperature Protection, Over Current Protection, Over/Under Voltage Protection and Cell Low/ High Protection Via Encontroller
	Short Circuit Current Protection
String Level Protection	Over Temperature Protection, Over/Under Voltage Protection, Over Current Protection, Short Circuit Current Protection



ENCAP Module
15 kWh 50 V



Contactor Box



Subcontroller

Performance Specifications	
DC Energy	15 kWh
Voltage Range	48 Vdc to 58 Vdc
DC Voltage (Nominal)	50 Vdc
Internal Resistance	< 4 mili Ohms
Cell Specifications	
Technology	Encapsulated Cell
Charge & Discharge Characteristics	
Maximum Continuous Charge Current	300 A (~1C)
Maximum Continuous Discharge Current	300 A (~1C)
Charge/Discharge Method	CC/CP/VP
Smart Features	
Communication	CANBUS and UART
EN-Connect Software	
Module Monitoring	Total Voltage Individual Cell Voltages Current Temperatures SOC and Energy Consumed
Mechanical Specifications	
Module Casing Material	GI Powdered
Terminal Type	Anderson Connectors
Module Environmental Specifications	
Operating Temperature Range	-30°C~ +70°C
Operating Humidity	Non-Condensing
Service Life	
Cells Projected Cycle Life	500,000 Cycles
Cells Projected Calendar Life	25 Years
Module Projected Shelf Life	10 Years
Warehousing	Can be stored at any SOC without affecting cycle life

Specifications	
Voltage	230 Vac
Charge/Discharge Control	365 A
DC Bypass for Overload Current	>20 A
Pre-charge Current	10 A via 200 W limiting Resistor
Protection	Short Circuit Protection, High Current (Charging/Discharging) Protection
Manual Bypass Breaker	125 A 1Pole
Communication	RJ45 Port (CANBUS Communication)
Dry Contact Control	DB 25 Pin
LED Indicator	Pre-charge, Charge, Discharge, Bypass, Fan
Compatibility	Work only through EN Rack Controller
Mechanical Specifications	
Dimensions (W x H x D) mm	453 x 156 x 507
Weight (kg)	18
Material	GI/AL/Plastic

Subcontroller



Applications



Data Center



Utilities



BESS (Battery Energy Storage Solution)



Emergency Backup