

LIQUID-COOLED INTEGRATED CABINET · 800 V AC

VentureEdge 800

Storage that grafts onto a solar plant.

Available early 2027

418 kWh

Nominal energy

209 kW

Rated AC power

800 V AC

Rated AC voltage

110 %

Continuous overload



Outputs AC directly

Built-in PCS with a three-level topology; several cabinets can be paralleled on the AC side.



Liquid-cooled batteries

High-efficiency thermal management lifts round-trip efficiency by more than 1%, with less than 5 °C between cells.



Safety by isolation

Each battery cluster is controlled on its own, with no DC-side paralleling: low short-circuit current, and cabinets isolated from each other, electrically and against fire.



Where it fits



Existing solar plants

Adds storage at the output of the PV inverters, on the plant's 800 V AC side.



Shifting export

Daytime production is stored and exported during the higher-priced hours.



Saturated grid connections

Limits curtailment when the grid connection is the bottleneck.

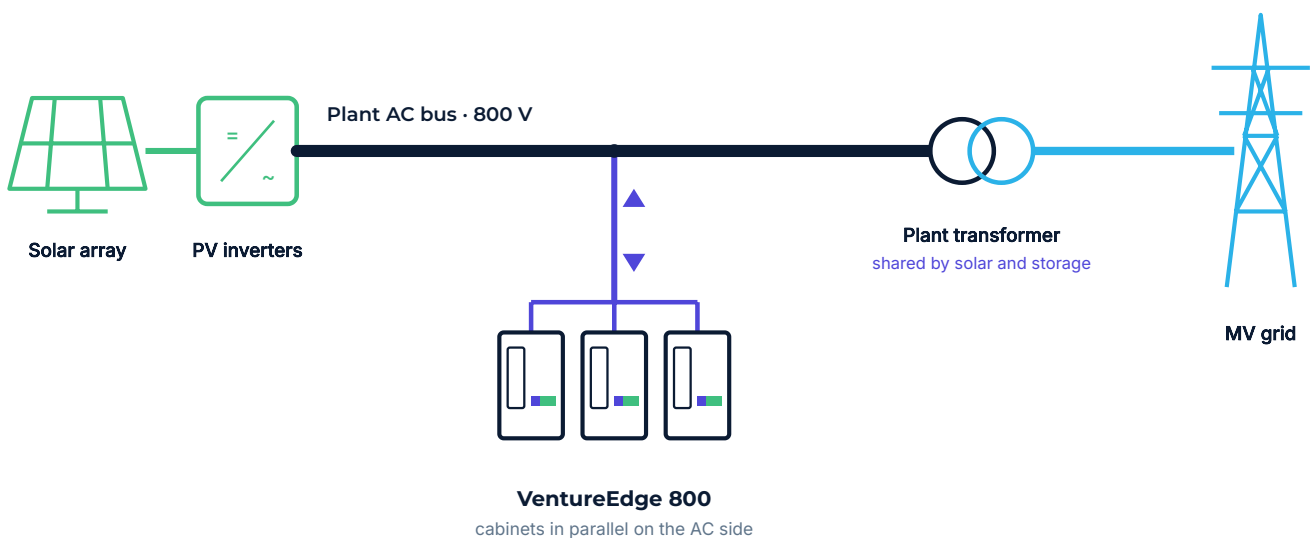


Step-by-step build-out

Start with one cabinet and add more, in parallel on the AC side.

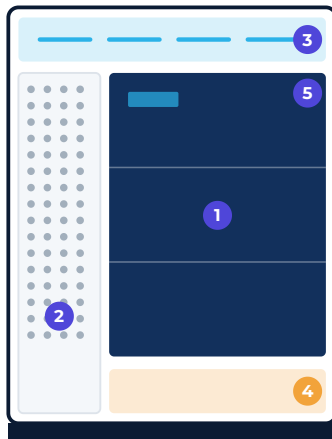
Coupled on the plant's 800 V side, sharing its transformer

The VentureEdge 800 connects to the solar plant's 800 V AC bus, at the output of the PV inverters. It needs no transformer of its own: where a conventional installation lines up two — one for solar, one for the battery — only one remains.



Simplified diagram

Battery, inverter and safety in one cabinet



Schematic, not to scale

- 1 **Battery cluster** — 418 kWh, liquid-cooled, 0.5P
- 2 **PCS** — 209 kW at 800 V AC, three-level topology, air-cooled
- 3 **Liquid thermal management** — less than 5 °C between cells
- 4 **Fire suppression** — electrically controlled condensed aerosol
- 5 **Cluster-level control** — each cluster controlled on its own, no DC-side paralleling

SPECIFICATIONS

Technical characteristics

DC side (0.5P)

Nominal energy	418 kWh
Rated DC current	157 A
Max. DC current	179.4 A
DC voltage range	1,164.8 – 1,497.6 V

AC side

Rated AC power	209 kW
Rated AC voltage	800 V
Rated frequency	50 / 60 Hz
Rated current	150.8 A
Power factor	0.99 / –1 to 1
Overload capability	110% continuous

Installation

Peak system efficiency	90% (excluding auxiliary power)
Auxiliary consumption	3.2 kW
Cooling	Liquid for the batteries, air for the PCS
Fire suppression	Electrically controlled condensed aerosol
Dimensions (L × W × H)	1,600 × 1,350 × 2,450 mm
Ingress protection	IP 54 overall
Operating temperature	–30 to 55 °C
Humidity	0 – 95%
Altitude	≤ 2,000 m (< 3,000 m with derating)
Noise	≤ 75 dB at 1 m
Reference	YXHK-209K/852314-X
Availability	Early 2027

Manufacturer · RelyEZ Energy Storage Technology Co., Ltd. — Shenzhen, China. Product: RelyEZ VentureEdge 800 liquid-cooled C&I integrated cabinet.

The manufacturer's technical documentation is available from JR Batteries. Data: RelyEZ VentureEdge 800 datasheet (YXHK-209K/852314-X).

Rooftop solar plant built by JR Énergie — Cournon-d'Auvergne, France

WORKING WITH JR

Your project, with JR Batteries

One point of contact, from sizing to operation. RelyEZ manufactures the system; JR Batteries supplies it and supports you at every step, with the expertise of our partner installer, JR Énergie.

JR BATTERIES

Your point of contact

Sizing, supply, logistics, compliance and end of life of the products.

RELYEZ

Manufacturer & technology partner

Assembler of cabinets and containers for storing electricity, from the cell up to the software layer.

JR ÉNERGIE

Partner installer

Studies, installation, grid connection, maintenance — 1,500+ plants in service in France since 2016.

HOW WE START

1

Your profile

site, activity, objective

2

Your data

load curves, generation, contracts

3

Sizing study

the right capacity for your site

4

Financing & delivery

options identified, supply and installation planned

Project financing support

JR Batteries and JR Énergie help identify financing options suited to your project: bank financing, French and European instruments, including Bpifrance solutions where eligible, and internationally funded reconstruction programmes. Financing remains subject to programme requirements and approval by the relevant financial institutions.

YOUR CONTACT

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