JRbatteries × RelyEZ

EN English

AIR-COOLED ALL-IN-ONE CABINET · BUILT-IN SOLAR INPUTS

VenturePro 112

Storage and solar in a single cabinet.

112 kWh
Nominal energy

50 kW
AC power

96 kW
Connectable solar, 4 MPPT

≥ 8,000 cycles
Cycle life

Panels connect directly
Four MPPT inputs take up to 96 kW of solar panels: no separate PV inverter to add.

Works with a generator
The cabinet works with a diesel generator: solar, battery and generator supply isolated or weakly connected sites together.

Grows with your site
Up to 10 cabinets in parallel on the AC side, i.e. 1.12 MWh.



Manufactured by RelyEZ

Supplied and supported by JRbatteries

jr-batteries.com/en

USES

Where it fits

Solar self-consumption

The panels connect to the cabinet; the daytime surplus is stored, then used on site in the evening.

Isolated sites, generators

On an isolated or weakly connected site, the cabinet works alongside the diesel generator and adds stored solar.

Peak shaving

The battery covers consumption peaks above the contracted power.

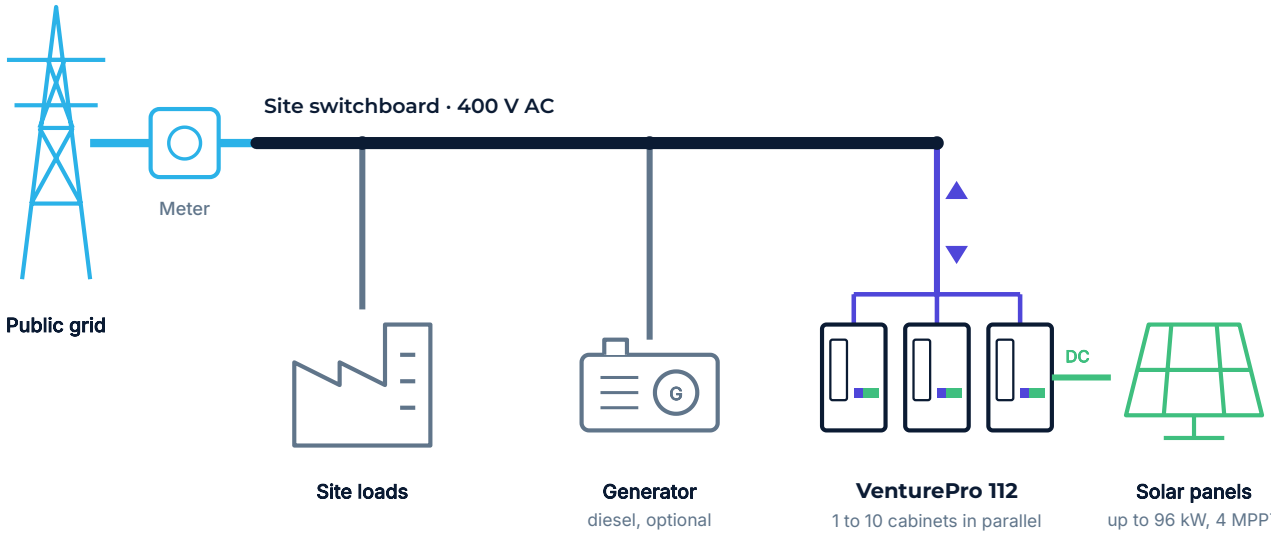
Scaling up

Start with one cabinet, then add more: up to 10 in parallel, 1.12 MWh in total.

ARCHITECTURE

Grid, solar and generator on the same cabinet

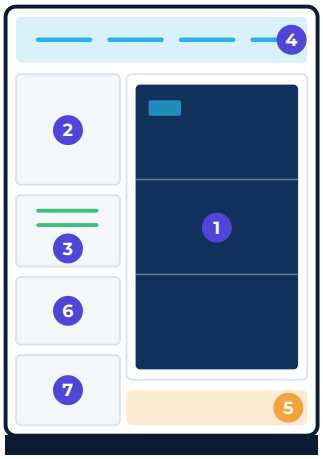
The VenturePro 112 combines the battery, the inverter (PCS) and the solar inputs. It connects to the site's 400 V AC switchboard; the panels are wired straight into the cabinet, on the DC side, and a generator can add to the supply.



Simplified diagram

INSIDE THE CABINET

Seven functions, one enclosure



Schematic, not to scale

1. **Battery** — 112 kWh in a single cluster: no DC paralleling, limited short-circuit current
2. **PCS** — 50 kW three-level inverter, peak efficiency of 97.8%
3. **Solar inputs** — 4 MPPT and 8 strings, up to 96 kW of panels
4. **Air cooling** — air circulation and smart temperature control
5. **Fire protection** — smart fire protection and pressure relief
6. **Energy management** — shares energy between solar, battery, grid and generator
7. **Cell monitoring** — the state of every cell is tracked in real time

SPECIFICATIONS

Technical characteristics

Battery

Nominal energy	112.5 kWh
Rated rate	0.5P
Max. current	179.4 A
Voltage range	313.6 – 403.2 V DC
Cycle life	≥ 8,000 cycles

Grid connection

Rated power	50 kW
AC voltage	400 V ± 15%
Rated current	76 A
Frequency	50 / 60 Hz ± 5 Hz
Peak efficiency	97.8%
Parallel connection	Up to 10 cabinets on the AC side, 1.12 MWh

Solar inputs

Max. solar power	96 kW
Rated input voltage	600 V DC
Start-up voltage	180 V DC
MPPT / strings	4 / 8
Max. input current	4 × 40 A
Max. power per MPPT	24 kW

Installation

Dimensions (L × W × H)	990 × 1,300 × 2,230 mm
Weight	About 1.8 t
Ingress protection	IP 54
Cooling	Air
Operating temperature	−25 to 55 °C
Altitude	≤ 2,000 m, < 3,000 m with derating (option)



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

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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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