

COMMERCIAL & INDUSTRIAL

Vast 209

Outdoor integrated cabinet

A 50 kW / 209 kWh liquid-cooled outdoor cabinet for small and medium commercial and industrial sites.

50 kW

RATED OUTPUT POWER

209 kWh

RATED ENERGY

665.6 VDC

RATED VOLTAGE

Liquid

COOLING

Full specs: blazarenergy.io/products/vast-209



Vast 209 is an outdoor integrated energy storage cabinet rated at 50 kW and 209 kWh, built on 314 Ah cells in a 1P208S string at 665.6 VDC. It is designed for small and medium-sized commercial and industrial facilities, combining photovoltaic access, battery storage, grid interaction and intelligent scheduling in one unit. Multiple cabinets can be connected in parallel to build MWh-level systems.

KEY ADVANTAGES



Integrated intelligent control

Photovoltaics, energy storage, the grid and diesel generators are managed under unified scheduling, with an EMS that optimizes the energy strategy in real time.



Storage capacity and flexible expansion

209 kWh of available energy covers sustained peak demand. The modular design supports parallel connection of multiple cabinets for expansion to MWh-level systems.



Grid interaction

Built to grid connection standards with anti-islanding protection and grid support functions, and switches seamlessly between grid-connected, off-grid and hybrid modes.

FEATURES

- ✓ **Liquid cooling**
The battery is liquid cooled and charges from 0 °C to 55 °C, discharges from -20 °C to 55 °C and operates at altitudes up to 2,000 m.
- ✓ **0.5C charge and discharge**
Standard charging and discharging rate of 0.5C, with maximum charging and discharge currents of 215 A across a 520 to 748.8 VDC voltage range.
- ✓ **Quick-connect power interface**
Power connections use a quick plug-and-unplug interface, and the battery is built from 1P52S packs forming a 1P208S cell string.

APPLICATIONS

Islands

Rural and remote areas

Farmlands

Off-grid sites

Technical specifications

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SYSTEM	
Model	XC-CWC/209/AC/H
Rated energy	209 kWh
Rated output power	50 kW
Power interface	Quick plug and unplug

BATTERY	
Cell configuration	1P208S
Pack composition	1P52S
Rated voltage	665.6 VDC
Voltage range	520-748.8 VDC
Nominal capacity	314 Ah
Standard charging and discharging rate	0.5C
Maximum charging current	215 A
Maximum discharge current	215 A

THERMAL MANAGEMENT & SAFETY	
Cooling method	Liquid cooling

ENVIRONMENT	
Charging temperature range	0 °C to 55 °C
Discharge temperature range	-20 °C to 55 °C
Storage temperature range	-30 °C to 60 °C
Applicable altitude	≤2,000 m

MECHANICAL	
Size (W × D × H)	1,371.75 × 1,560 × 2,170 mm
Weight	2,050 ± 50 kg

Specifications are based on manufacturer test data and may change without notice. Standards and certifications refer to the manufacturer's test reports, available on request. The final configuration, performance and warranty terms are confirmed in each project proposal.

Let's size the right system for your site.

Battery storage, solar and energy services across Israel, Europe and Latin America.

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