

UTILITY-SCALE

Pivot

Modular DC-side BESS

Split stainless steel DC-side battery storage that scales from one to five cabins, up to 4.18 MWh.

**836 kWh to
4.18 MWh**

RATED ENERGY

**200 to 1,000
kW**

OPERATING POWER

8,000 cycles

CELL CYCLE LIFE

C5

CORROSION GRADE

Full specs: blazarenergy.io/products/pivot



Pivot is a DC-side lithium iron phosphate (LFP) battery storage system built from segmented stainless steel cabins that are lifted, transported and installed individually. One to five cabins can be combined, from 836 kWh and 200 kW up to 4,179.968 kWh and 1,000 kW, with liquid cooling, aerosol fire suppression and a C5 corrosion-resistant enclosure. The segmented design suits industrial, commercial and residential-complex sites where terrain or space limits a conventional container.

KEY ADVANTAGES



Modular, flexible configuration

The minimum unit capacity is 418 kWh and the system expands on demand to 4.18 MWh. The segmented stainless steel structure is easy to lift and transport, so it can be installed where terrain or space rules out a conventional container.



Stainless steel protection

The enclosure is SUS304 stainless steel with C5 corrosion resistance, suited to high-humidity and high-salt-spray sites. IP54 protection, with built-in lightning protection, fire protection and UPS backup power.



Liquid cooling

A liquid cooling unit holds the cells within their optimal temperature range to extend service life. The three-level coolant piping uses quick-connect, leak-proof fittings for easy maintenance.



Three-level BMS

An ESBMM, ESBCM and ESMU three-level architecture monitors and balances the system from cell to system level. Active balancing improves cell consistency, extends overall life and increases usable capacity.

FEATURES

- ✓ **Intelligent energy management**
- ✓ **Grid services and compliance**
- ✓ **Remote operation and maintenance**

Coordinates with solar PV, wind and diesel generation for optimized microgrid dispatch. Four-quadrant operation with no delay when switching between charge and discharge.

Can provide ancillary services such as demand response, frequency regulation and reserve capacity. Compliant with GB/T 36276 and IEC 62619.

Remote management from a mobile app or PC shows operating data, battery statistics and revenue reports. A built-in predictive maintenance system supports servicing.

APPLICATIONS

High-power industry

Residential complexes

Solar canopy EV charging

Commercial centers

Technical specifications

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BATTERY

Cell chemistry	Lithium iron phosphate (LFP)
Cell specification	3.2 V / 314 Ah
Cell cycle life	8,000 cycles @ 70% EoL, 100% DoD, 25 °C

THERMAL MANAGEMENT & SAFETY

Fire suppression medium	Aerosol
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ENVIRONMENT

Operating temperature	-30 °C to 50 °C (derating required above 45 °C)
Operating humidity	RH ≤95% (non-condensing)
Installation altitude	≤3,000 m (derating required above 2,000 m)

MECHANICAL

Exterior color	Natural stainless steel
Corrosion resistance grade	C5

AVAILABLE CONFIGURATIONS

Parameter	Single cabin	Dual cabin	Three cabin	Four cabin	Five cabin
Battery grouping	1p416s × 2	1p416s × 4	1p416s × 6	1p416s × 8	1p416s × 10
Rated energy	836 kWh	1,672 kWh	2,508 kWh	3,344 kWh	4,179.968 kWh
Rated current	150.2 A	300.5 A	450.7 A	601.0 A	751.2 A
Standard operating power	200 kW	400 kW	600 kW	800 kW	1,000 kW
Battery compartments	1 unit	2 units	3 units	4 units	5 units
Footprint (W × L)	2.6 m × 6.1 m	5.2 m × 6.1 m	7.8 m × 6.1 m	10.4 m × 6.1 m	13.0 m × 6.1 m

STANDARDS AND CERTIFICATIONS

GB/T 36276

IEC 62619

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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