

COMMERCIAL & INDUSTRIAL

Star 215

Outdoor integrated cabinet

A 105 kW / 215 kWh outdoor cabinet that integrates LFP batteries, PCS, liquid cooling and fire protection.

105 kW

RATED POWER

215 kWh

RATED ENERGY

6,000 cycles

CYCLE LIFE

Liquid

COOLING

Full specs: blazarenergy.io/products/star-215



Star 215 is an outdoor integrated cabinet that combines lithium iron phosphate batteries, a PCS, temperature control and fire protection in one enclosure of approximately 1.4 × 1.5 × 2.2 m. It is deployed outdoors without additional civil works and supports grid-connected and off-grid operation alongside photovoltaics and diesel generators. Multiple cabinets can be connected in parallel to reach MWh-level capacity.

KEY ADVANTAGES



All-in-one outdoor cabinet

Battery, PCS, temperature control and fire protection are integrated in one cabinet that installs outdoors without additional civil works. The compact footprint of approximately 1.4 × 1.5 × 2.2 m suits space-constrained sites.



Liquid-cooled batteries

Battery liquid cooling holds the cell temperature difference to ≤ 3 °C to support cycle life and stability. The specification table rates charging from 0 °C to 35 °C and discharging from -20 °C to 55 °C.



Modular expansion

Standardized cabinets connect in parallel to scale to MWh-level capacity, and on-site installation and commissioning take 3 to 5 days.

FEATURES

✓ Energy management

System efficiency of $\geq 88\%$ under measured conditions, four-quadrant operation and seamless switching between charging and discharging. The integrated PCS supports grid-connected and off-grid modes and works with photovoltaics and diesel generators.

✓ Layered safety

Lithium iron phosphate cells rated for 6,000 cycles at 90% DoD and 25 °C, a perfluorohexane automatic fire extinguishing system, IP65/IP54 protection and IEC 62619 certification.

✓ Remote monitoring

Modbus over RS-485 or RJ-45 links the cabinet to energy management platforms, with operating status, battery data and fault warnings available on mobile and PC.

APPLICATIONS

High-power industry

Residential complexes

Solar canopy EV charging

Commercial centers

Technical specifications

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SYSTEM	
Model	OES-105/215L
Rated power	105 kW
Rated capacity	215 kWh
System efficiency	≥88% (measured conditions)

BATTERY	
Battery type	Lithium iron phosphate (LFP)
Cycle life	6,000 cycles (90% DoD, 25 °C, EOL 70%)

POWER CONVERSION	
AC voltage	400 V
AC frequency	50/60 Hz

THERMAL MANAGEMENT & SAFETY	
Cooling method	Battery liquid cooling / electrical forced air cooling
Fire protection system	Perfluorohexane automatic fire extinguishing

COMMUNICATION & CONTROL	
Communication interface	RS-485 / RJ-45
Communication protocol	Modbus RTU/TCP

ENVIRONMENT	
Operating temperature	Charging: 0 °C to 35 °C / discharge: -20 °C to 55 °C
Protection level	IP65 (battery compartment) / IP54 (electrical compartment)
Corrosion resistance grade	C3

MECHANICAL	
Dimensions (W × D × H)	Approx. 1,400 × 1,500 × 2,200 mm (excluding air conditioning and canopy)
Weight	≤3,000 kg

STANDARDS AND CERTIFICATIONS

IEC 62619

CE

UN 38.3

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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