

UTILITY-SCALE

Titan 5016

Containerized BESS

A water-cooled LFP energy storage container rated at 5.016 MWh and 2.5 MW.

2.5 MW

RATED POWER

5.016 MWh

RATED CAPACITY

8,000 cycles

CYCLE LIFE

≥95%

SYSTEM EFFICIENCY

Full specs: blazarenergy.io/products/titan-5016



Titan 5016 is a containerized lithium iron phosphate (LFP) battery storage system rated at 5.016 MWh, with a 0.5C rate that allows full discharge in 2 hours. It integrates EMS, BMS, temperature control and fire protection in a standardized 20 ft container, and multiple units can be paralleled for projects of 10 MWh and above. It is aimed at high-load sites such as industrial parks and data centers, and at energy arbitrage, peak shaving and microgrid applications.

KEY ADVANTAGES



Large-scale capacity

5 MWh-class capacity with 100% discharge in 2 hours, sized for high-load sites such as industrial parks and data centers. Supports capacity management and demand control to reduce electricity costs.



Plug-and-play deployment

A standardized 20 ft container with integrated EMS, BMS, temperature control and fire protection; on-site installation and commissioning take 7 days. Multiple units can run in parallel for projects of 10 MWh and above.



Safety and long life

LFP cells rated for 8,000 cycles. A three-level fire protection system and compliance with the IEC 62619 safety standard.

FEATURES

✓ Efficient energy management

Charge and discharge efficiency of 95% or higher, with four-quadrant operation and seamless switching between charging and discharging. Scheduling strategies coordinate with solar PV, wind and diesel generators.

✓ Grid services and compliance

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

✓ Remote monitoring

AI-based predictive maintenance monitors battery health in real time, with fault warning accuracy above 99%. A cloud management platform gives access to operating data from mobile devices or PC.

APPLICATIONS

Energy arbitrage

Peak shaving

Solar canopy EV charging

Microgrids

Technical specifications

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SYSTEM		COMMUNICATION & CONTROL	
Product model	XC-LCC/5016	Communication interface	PCS-CAN / Modbus / Ethernet
Rated capacity	5.016 MWh	Communication protocol	PCS-CAN 2.0 / Modbus RTU / IEC 61850
Charge-discharge rate	0.5C		
Charge and discharge method	Constant power (CP)		
System efficiency	≥95% (under rated temperature and humidity conditions)		
Nominal DC voltage	1,331.2 V		
DC voltage range	1,164.8 to 1,697.6 V		
Maximum DC current	1,440 A		
BATTERY		ENVIRONMENT	
Battery type	Lithium iron phosphate (LFP)	Operating temperature	-30 °C to 55 °C
Cycle life	8,000 cycles (90% depth of discharge, 25 °C, end-of-life capacity of 70%)	Operating humidity	< 50% relative humidity, non-condensing
		Operating altitude	≤4,000 m
		Operating noise	≤75 dB (at 1 m)
THERMAL MANAGEMENT & SAFETY		MECHANICAL	
Cooling method	Water cooling	Weight	≈ 45 t
Fire protection system	Water fire protection + carbon dioxide fire extinguishing device (optional)	Dimensions (W × D × H)	2,550 × 6,300 × 2,896 mm
		Protection level	IP55
		Corrosion resistance grade	C4/C5 (optional)

STANDARDS AND CERTIFICATIONS

IEC 62619

GB/T 36276

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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