

RESIDENTIAL

Home 16

Floor-standing home battery

A 51.2 V, 314 Ah LiFePO4 battery that stores 16.07 kWh for residential solar systems.

16.07 kWh

NOMINAL ENERGY

10.24 kW

OUTPUT POWER

≥8,000 cycles

CYCLE LIFE

Up to 50

PARALLEL UNITS

Full specs: blazarenergy.io/products/home-16



Home 16 is an indoor-rated, floor-standing low-voltage battery built on LiFePO4 cells, with 16.07 kWh of nominal energy and 10.24 kW of nominal output power. In the reference layout it connects to a hybrid inverter together with solar panels, household loads and the grid. Up to 50 units can be connected in parallel, and the integrated BMS communicates over RS-485, CAN or RS-232.

KEY ADVANTAGES



Long cycle life

Rated for at least 8,000 cycles at 80% depth of discharge and 25 °C, with a recommended state-of-charge window of 10% to 90% for best cycle life.



BMS management

An integrated battery management system supervises the 51.2 V pack and exchanges data with the inverter over RS-485, CAN or RS-232.



Parallel expansion

Up to 50 units can be connected in parallel to scale storage beyond a single 16.07 kWh battery.

FEATURES

✓ Full protection

Cell-level overcharge protection at 3.70 V (±0.025 V), over-discharge protection at 2.70 V (±0.080 V) and short-circuit protection.

✓ Safe chemistry

LiFePO4 cells in an SPCC steel case, rated for indoor use with charging from 0 °C to +55 °C and discharging from -20 °C to +55 °C.

✓ Easy installation

A floor-standing unit measuring 800 × 500 × 260 mm (H × W × D) and weighing 125 kg, designed to sit beside the inverter in a home solar system.

APPLICATIONS

Residential solar systems

Grid-connected homes

Technical specifications

Home 16 · Floor-standing home battery

SYSTEM	
Model	Hy-LF051314A0-P
Warranty	5 years

BATTERY	
Battery cell type	LiFePO4
Nominal voltage	51.2 V
Nominal capacity	314 Ah
Nominal energy	16.07 kWh
Nominal output power capacity	10.24 kW
Working voltage	44.80-58.40 V
Charging voltage	58.4 V max
Charge current	157 A
Max. continuous discharge current	200 A
Instantaneous discharge current	300 A (≤ 1.0 s)
Self-discharge	≤ 500 mA (working), ≤ 800 μ A (sleeping)
Cycle life	$\geq 8,000$ cycles at 80% DoD, 25 °C
Recommended SOC range	10% to 90% (better cycle life)
Recommended end of life	Capacity/nominal capacity <70%

THERMAL MANAGEMENT & SAFETY	
Overcharge protection voltage	3.70 V (± 0.025 V)/cell
Over-discharge protection voltage	2.70 V (± 0.080 V)/cell
Short circuit protection	Yes

COMMUNICATION & CONTROL	
Communication port	RS-485 / CAN / RS-232
Parallel connection	Up to 50 units

ENVIRONMENT	
Operating temperature	Charging: 0 °C to +55 °C; discharge: -20 °C to +55 °C
Operating humidity	<95%
Operating environment	Indoor rated
Storage temperature	-20 °C to +45 °C (1 month); 0 °C to +35 °C (1 year)
Storage humidity	<95%
SOC at shipment	30%-60%

MECHANICAL	
Case material	SPCC
Dimensions (H × W × D)	800 × 500 × 260 mm
Weight	125 kg
Mounting type	Floor standing

STANDARDS AND CERTIFICATIONS

UN 38.3

MSDS

CE

RoHS

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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

Vast 209 · Outdoor integrated cabinet

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

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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

Star 215 · Outdoor integrated cabinet

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

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COMMERCIAL & INDUSTRIAL

Swift 261

Hybrid energy storage cabinet

A 125 kW / 261 kWh outdoor cabinet that pairs a hybrid inverter with liquid-cooled LFP storage for solar sites.

125 kW

RATED POWER

261 kWh

BATTERY CAPACITY

≥6,000 cycles

CYCLE LIFE

Liquid

COOLING

Full specs: blazarenergy.io/products/swift-261



Swift 261 is a hybrid energy storage system in an integrated outdoor cabinet, combining a 125 kW high-voltage hybrid inverter with liquid-cooled lithium iron phosphate batteries. It schedules photovoltaic, battery and grid power together and accepts up to 240 kW of photovoltaic input. The cabinet is offered in 156 kWh, 209 kWh and 261 kWh versions, and up to 10 units can operate in parallel, grid-connected or off-grid.

KEY ADVANTAGES



Integrated solar and storage

A 125 kW high-voltage hybrid inverter schedules photovoltaic, battery and grid power together, with support for up to 240 kW of photovoltaic input to raise on-site solar self-consumption.



Liquid-cooled temperature control

Battery liquid cooling holds the cell temperature difference to ≤ 3 °C, and the system is rated for more than 6,000 cycles. It operates from -30 °C to 50 °C, with derating above 45 °C.



Modular expansion

A standard cabinet design supports up to 10 units in parallel for MWh-level system capacity, with plug-and-play installation and quick on-site commissioning.

FEATURES

- ✓ **Intelligent EMS control**
Energy management with a 7-inch touchscreen coordinates photovoltaic, battery and grid operation.
- ✓ **Safe and all-climate ready**
Certified battery with liquid cooling, dual fire suppression (Novec 1230 gas plus water-based extinguishing) and operation from -30 °C to 50 °C.
- ✓ **Modular and quick deployment**
Plug-and-play cabinets scale to MWh level with up to 10 units in parallel, in grid-connected or off-grid operation.

APPLICATIONS

Islands

Rural and remote areas

Farmlands

Off-grid sites

Technical specifications

Swift 261 · Hybrid energy storage cabinet

SYSTEM		COMMUNICATION & CONTROL	
Battery capacity	156 kWh / 209 kWh / 261 kWh	Communication interface	CAN / Ethernet / 485
Maximum number of parallel connections	10 units (grid-connected/off-grid)		
BATTERY		ENVIRONMENT	
Battery type	Lithium iron phosphate (LFP)	Operating temperature	-30 °C to 50 °C (derating above 45 °C)
Battery cell capacity	314 Ah	Operating humidity	0-95% (no condensation)
Battery pack configuration	1P156S / 1P208S / 1P260S	Altitude	≤2,000 m
Rated voltage	499.2 V / 665.6 V / 832 V	Protection level	IP67 (battery compartment) / IP54 (cabinet)
Charge-discharge rate	0.5P	Corrosion resistance grade	C4 (C5 optional)
Cycle life	≥6,000 cycles (80% DoD)		
THERMAL MANAGEMENT & SAFETY		MECHANICAL	
Cooling method	Liquid cooling	Weight	<2.7 t
Fire protection system	Novec 1230 + water-based fire extinguishing system	Dimensions (W × H × D)	≈989 × 2,471.5 × 1,465 mm
Security configuration	Gas fire extinguishing + water fire extinguishing + ventilation + explosion-proof board		

AVAILABLE CONFIGURATIONS

Parameter	156 kWh	209 kWh	261 kWh
Battery capacity	156 kWh	209 kWh	261 kWh
Battery pack configuration	1P156S	1P208S	1P260S
Rated voltage	499.2 V	665.6 V	832 V

STANDARDS AND CERTIFICATIONS

IEC 62619

IEC 63056

IEC 61000

IEC 62477-1

UN 38.3

IEC 60730

UL 9540A

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COMMERCIAL & INDUSTRIAL

Wing 261

C&I energy storage cabinet

A 125 kW / 261 kWh liquid-cooled energy storage cabinet with an integrated bidirectional converter for industrial and commercial sites.

125 kW

RATED POWER

261 kWh

RATED ENERGY

88%

SYSTEM EFFICIENCY

Liquid

COOLING

Full specs: blazarenergy.io/products/wing-261



An all-in-one AC cabinet that combines five liquid-cooled LFP battery packs (1P260S, 832 V nominal), a 125 kW bidirectional converter and built-in BMS and EMS. It switches seamlessly between grid-connected and off-grid operation and outputs 340-400 V three-phase (3L/N/PE) at 50 Hz. It suits industrial sites, commercial centers, residential complexes and solar canopy EV charging.

KEY ADVANTAGES



Liquid cooling

Liquid cooling keeps the cell-to-cell temperature difference at or below 3 °C, supporting cycle life, operating stability and high power density operation.



High power, wide voltage, high efficiency

125 kW rated and 137.5 kW maximum output, 670-949 V battery voltage range and 340-400 V AC output for a range of grids and loads. Maximum efficiency is 98.6% and system efficiency is 88%.



Grid compliance

Designed to Chinese grid connection standards for energy storage, including GB/T 34120 and GB/T 36775, and tested to the IEC 61000 series for electromagnetic compatibility.



Remote management

WLAN, app, Wi-Fi, 4G, LAN and Bluetooth connectivity for cloud monitoring, strategy optimization and fault warnings.

FEATURES

- ✓ **Battery system**
Five liquid-cooled battery packs (1P52S each) connected in series for a 1P260S assembly with a nominal voltage of 832 V.
- ✓ **Thermal management**
Liquid circulation with an intelligent temperature control strategy for stable operation in all weather conditions.
- ✓ **PCS unit**
Integrated 125 kW bidirectional converter with seamless switching between grid-connected and off-grid operation.
- ✓ **Management system**
Built-in BMS and EMS with multi-protocol communication and cloud management.

APPLICATIONS

High-power industrial sites

Residential complexes

Solar canopy EV charging

Commercial centers

Technical specifications

Wing 261 · C&I energy storage cabinet

SYSTEM	
Product model	XC-CWC/261/AC
Rated energy capacity	261 kWh
Rated output power	125 kW
System efficiency	88%

BATTERY	
Battery type	LFP (lithium iron phosphate)
Battery grouping	1P260S (5 battery packs in series, 52 cells in series per pack)
Number of battery clusters	1 cluster (system integration)
Nominal DC voltage	832 V (260 cells × 3.2 V)
Battery voltage range	670-949 V
Maximum charge/discharge current	188 A
Maximum charge/discharge power	137.5 kW

POWER CONVERSION	
Maximum output power	137.5 kW
Output voltage range	340-400 V (3L/N/PE)
Output frequency	50 Hz
Maximum output current	158.5 A
Power factor	Adjustable, -0.8 to +0.8
Total harmonic distortion (THDi)	< 3%
Maximum efficiency	98.6%

THERMAL MANAGEMENT & SAFETY	
Cooling method	Liquid cooling
Fire protection system	Aerosol fire extinguishing (pack level)

COMMUNICATION & CONTROL	
Human-machine interface	LED display; WLAN + app remote control
Communication interface	Wi-Fi, 4G, LAN, Bluetooth
Communication protocol	Modbus RTU, Modbus TCP

ENVIRONMENT	
Operating temperature	-25 °C to +35 °C
Operating humidity	5-95% (non-condensing)
Operating altitude	≤4,000 m (derating above 3,000 m)

MECHANICAL	
Dimensions (W × H × D)	1,000 × 2,300 × 1,400 mm
Protection level	IP55 (battery compartment)

STANDARDS AND CERTIFICATIONS

GB/T 34120

GB/T 36775

GB/T 34313

GB/T 34133

IEC 61000 series

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COMMERCIAL & INDUSTRIAL

Agile 418

C&I outdoor storage cabinet

A 215 kW / 418 kWh outdoor LFP energy storage cabinet for small and medium-sized commercial and industrial sites.

215 kW

RATED POWER

418 kWh

RATED CAPACITY

≥94%

SYSTEM EFFICIENCY

≥6,000 cycles

CYCLE LIFE

Full specs: blazarenergy.io/products/agile-418



An integrated outdoor cabinet rated 215 kW / 418 kWh, built on lithium iron phosphate cells with BMS, thermal management and fire protection inside the enclosure. It supports a full discharge in 2 hours at a system efficiency of at least 94%, and several units can be paralleled for projects from 500 kWh to 2 MWh. It targets small and medium-sized factories, commercial buildings and charging stations, and can operate alongside PV, wind and diesel generation in microgrids.

KEY ADVANTAGES



Capacity and efficiency

418 kWh of storage with 100% discharge in 2 hours. A DC-side design reaches a system efficiency of at least 94%, reducing energy losses.



Modular, integrated cabinet

Outdoor cabinet with integrated BMS, temperature control and fire protection. Multiple units can be connected in parallel to cover projects from 500 kWh to 2 MWh, with room for later expansion.



Safety and service life

Lithium iron phosphate cells rated for at least 6,000 cycles, with an 8-year warranty. Three-level fire protection (aerosol, perfluorohexane and temperature-control linkage) complies with IEC 62619.

FEATURES

✓ Intelligent energy management

Coordinates with PV, wind and diesel generators for optimized microgrid scheduling. Four-quadrant operation switches between charge and discharge without delay.

✓ Grid services and compliance

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

✓ Remote operation

Remote management from mobile apps and PCs with one-click access to operating data, battery statistics and revenue reports, plus built-in predictive maintenance.

APPLICATIONS

High-power industrial sites

Residential complexes

Solar canopy EV charging

Commercial centers

Technical specifications

Agile 418 · C&I outdoor storage cabinet

SYSTEM

Model	DC-215/418
Rated power	215 kW
Rated capacity	418 kWh
System efficiency	≥94%

BATTERY

Battery type	Lithium iron phosphate (LFP)
Cycle life	≥6,000 cycles (80% capacity retention)
DC voltage range	1,500 V

ENVIRONMENT

Operating temperature	-25 °C to 50 °C
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MECHANICAL

Size	2,400 × 1,200 × 2,200 mm (customizable)
Weight	≈ 3.5 tons
Protection level	IP54 (outdoor dustproof and waterproof)

STANDARDS AND CERTIFICATIONS

IEC 62619

GB/T 36276

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UTILITY-SCALE

Rock 1045

20 ft AC storage container

A 500 kW / 1.045 MWh liquid-cooled AC energy storage system pre-integrated in a 20-foot container.

500 kW

RATED POWER

1.045 MWh

RATED CAPACITY

0.5C

MAX.
CHARGE/DISCHARGE
RATE

20 years

DESIGN LIFE

Full specs: blazarenergy.io/products/rock-1045

Battery, PCS, temperature control, fire protection and management systems are pre-integrated in a 20-foot container and commissioned at the factory, so on-site work is limited to wiring. Five clusters of 3.2 V / 314 Ah LFP cells (1P208S each) give 1.045 MWh at a rated 665.6 V, with a maximum charge/discharge rate of 0.5C. It suits high-power industrial sites, commercial centers and solar-plus-storage EV charging, and coordinates with PV, wind and diesel generation.


KEY ADVANTAGES

Integrated delivery

Battery, PCS, temperature control, fire protection and management systems are pre-integrated in a 20-foot container and fully commissioned before leaving the factory, so the unit is ready once wired on site.


Liquid-cooled thermal management

Liquid cooling holds the temperature difference between cells at or below 3 °C, and an intelligent temperature control strategy supports a system energy efficiency of at least 94%.


Multi-energy coordination

Automatic allocation and optimized operation of multiple sources such as PV, wind and diesel generators. PQ/VF automatic switching moves seamlessly between grid-connected, off-grid and standby modes.


Layered protection

Three-level fire protection combining five-in-one composite detection, temperature and smoke sensing, and aerosol extinguishing. The enclosure is rated IP54, corrosion class C4 and seismic level 7 for harsh environments.

FEATURES

- ✓ **Multi-energy coordination and operating modes**
Automatic scheduling and start/stop control of PV, wind and diesel generators. PQ/VF automatic switching supports grid-connected, off-grid and hybrid modes.
- ✓ **Intelligent temperature control**
Dual liquid-cooling and air-cooling system with remote adjustment of the control strategy.
- ✓ **Three-level fire protection**
Five-in-one detection, aerosol fire extinguishing, audible and visual alarm, and remote emergency stop.
- ✓ **Communication and cloud management**
Supports Modbus TCP, CAN and RS485, and connects to cloud platforms and energy management systems.

APPLICATIONS

High-power industrial sites

Residential complexes

Solar canopy EV charging

Commercial centers

Technical specifications

Rock 1045 · 20 ft AC storage container

SYSTEM	
Product model	XC-LCC/1045/AC
Rated power	500 kW
Rated capacity	1.045 MWh
Design life	20 years

BATTERY	
Battery type	Lithium iron phosphate (LFP)
Cell specification	3.2 V / 314 Ah
System grouping	1P208S × 5 clusters
Rated voltage	665.6 V
Voltage range	582.4-748.8 V
Maximum charge/discharge rate	0.5C

THERMAL MANAGEMENT & SAFETY	
Cooling method	Liquid cooling

COMMUNICATION & CONTROL	
External communication interface	Ethernet, CAN, RS485

ENVIRONMENT	
Operating temperature	-30 °C to 50 °C
Operating humidity	≤85% RH, non-condensing
Altitude	≤2,000 m (derating required above)
Noise level	≤80 dB(A)

MECHANICAL	
Dimensions (W × D × H)	2,438 × 6,058 × 2,896 mm
Gross weight	≈ 15 tons
Protection level	IP54
Corrosion resistance grade	C4
Seismic fortification category	Level 7

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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

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

✓ Grid services and compliance

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

✓ Remote operation and maintenance

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

Pivot · Modular DC-side BESS

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

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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

Titan 5016 · Containerized BESS

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

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UTILITY-SCALE

Titan 2.0

Liquid-cooled BESS container

A liquid-cooled 20 ft BESS container that delivers 6.25 MWh and 3.125 MW with 587 Ah LFP cells.

3.125 MW

RATED POWER

6.25 MWh

RATED CAPACITY

**≥11,000
cycles**

CYCLE LIFE

≥94%

ROUND-TRIP
EFFICIENCY


Full specs: blazarenergy.io/products/titan-2

Titan 2.0 is a utility-scale, liquid-cooled LFP battery energy storage container that fits 6.25 MWh into a standard 20 ft footprint, with 3.125 MW rated power for a 2-hour discharge at full load. It is rated for at least 11,000 cycles and at least 94% round-trip efficiency, and integrates EMS, BMS, thermal management and fire protection with IEC 61850 communication. Reference architectures cover AC-coupled solar and wind plants, DC-coupled solar, AGC frequency regulation and on/off-grid switching for critical loads.

KEY ADVANTAGES



High energy density

6.25 MWh in a standard 20 ft container, 25% more capacity than the previous generation. The 52s x 8p x 8c configuration maximizes space use and reaches a gravimetric density of at least 130 Wh/kg.



Long cycle life

At least 11,000 cycles at 80% end of life and more than 20 years of service. Liquid thermal management keeps the cell temperature difference within 3 °C at ambient temperatures from -30 °C to 55 °C.



Plug-and-play deployment

A fully integrated container with EMS, BMS, thermal management and fire protection, tested at the factory. IEC 61850 communication for utility grid integration, scalable to 100 MWh and beyond.

FEATURES

- ✓ **20+ years service life**
Designed for more than 20 years of service, with a cycle life of at least 11,000 cycles.
- ✓ **AI-powered EMS**
An integrated energy management system with AI-based control, communicating over CAN, Modbus, Ethernet and IEC 61850.
- ✓ **IP55 protection**
An IP55-rated enclosure, operating from -30 °C to 55 °C at altitudes up to 4,000 m.
- ✓ **Multi-certified**
Certifications cover IEC 62619 for cell safety, IEC 61850 for grid communication and UN 38.3 for transport safety, plus ISO 9001, ISO 14001 and ISO 45001 management systems.

APPLICATIONS

Utility-scale storage

Renewable integration

Frequency regulation

Data center backup

Technical specifications

Titan 2.0 · Liquid-cooled BESS container

SYSTEM	
Product model	XC-LCC/6250
Rated capacity	6.25 MWh
Rated power	3.125 MW (0.5P)
Discharge duration	2 hours @ full load
System efficiency	≥94% (round-trip)
Nominal DC voltage	1,331.2 V
DC voltage range	1,040 to 1,500 V
Max DC current	1,440 A
Warranty	10 years

BATTERY	
Battery type	LFP (587 Ah cells)
Cell configuration	52s × 8p × 8c
Cycle life	≥11,000 cycles (80% DoD, 25 °C)

THERMAL MANAGEMENT & SAFETY	
Cooling method	Liquid cooling (glycol-water)

COMMUNICATION & CONTROL	
Communication	CAN / Modbus / Ethernet / IEC 61850

ENVIRONMENT	
Operating temperature	-30 °C to 55 °C
Max altitude	≤4,000 m

MECHANICAL	
Protection level	IP55
Dimensions (W × D × H)	6,058 × 2,438 × 2,896 mm
Weight	≤48,000 kg
Container type	20 ft standard

STANDARDS AND CERTIFICATIONS

IEC 62619

IEC 61850

UN 38.3

ISO 9001

ISO 14001

ISO 45001

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