



RESIDENTIAL & COMMERCIAL ENERGY STORAGE

PRODUCT CATALOGUE

WORLD-LEADING
ENERGY AND POWER
SYSTEM PROVIDER

75+ years
of experience

1949-1987

A small battery company becomes one of the world's premier knowledge based distribution and services organizations for power and energy solutions.



1997

Discover emerges as a global innovator and manufacturer of high value energy storage and power solutions.



2011

Discover opens a new logistics, Engineering, Research & Development office in Richmond, BC, to support OEM and special projects integration.



2022

Discover Energy Systems becomes an independent entity focused solely on lithium and advanced energy products.

Leading the movement towards clean energy independence.

About Discover Energy Systems

Since 1949, Discover Energy Systems has been a leader in energy storage and power electronics. With 75+ years of expertise, we deliver safe, reliable, and high-performance solutions for applications ranging from solar energy storage to transportation power systems.

Our global network of distributors, dealers, and OEMs ensures seamless access to advanced lithium-based energy solutions. At Discover, we empower sustainable energy ecosystems with products that deliver exceptional value and reliability.

Mission

We electrify the world with dependable batteries and power electronics, making sustainable power a reality for current and future generations.

Vision

Leading the movement towards clean energy independence.

Values

Adaptable

Things change, but our DNA ensures we remain reliable and ready for the future.

Transparent

We cut through the industry nonsense to deliver honest and clear communication.

Collaborative

Business for us is cooperative and ROI-driven, ensuring mutual success.

Inspired

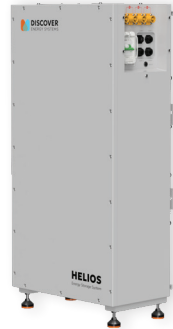
We are purpose-driven, independent thinkers who seek challenges and deliver profitable solutions.

RESIDENTIAL ENERGY STORAGE SYSTEMS

Residential energy storage solutions tailored to meet diverse homeowner needs. The HELIOS ESS and AES RACKMOUNT offer scalable, high-performance storage for backup power, off-grid living, and energy independence. Engineered for reliability and seamless integration, our systems deliver industry-leading performance and safety.

HELIOS ESS

Integrated energy storage and management system designed for seamless operation with solar installations, enhancing energy efficiency and autonomy.



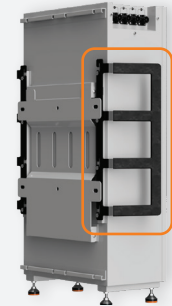
Specifications	HELIOS ESS
Energy Capacity	16.1 kWh up to 579.6 kWh (36 Networked modules)
Voltage	51.2 V
Enclosure Rating	NEMA 3R / IP65
Certifications / Listings	UL1973, UL9540A, UL 9540 DC ESS 3rd Edition, CEC and OGPe (PR) Listed.
Application Scenarios	Whole-Home Backup, Off-Grid

ACCESSORIES

CONDUIT BOX



LIFTING HANDLES



PARALLEL BATTERY TO BATTERY CABLE SET



BATTERY TO INVERTER CABLE SET



BATTERY CONNECTOR SET



AES RACKMOUNT

Versatile rack-mounted battery modules and accessories designed for easy installation in residential and small commercial settings, ensuring flexibility and scalability.



Specifications	AES RACKMOUNT
Energy Capacity	5.12 kWh up to 184 kWh (36 Networked modules)
Voltage	51.2 V
Installation Options	Quick Stack Rack + Battery Module Combiner, Slimline Enclosure
Certifications / Listings	UL 1973, UL 9540A, UL 9540 (with Slimline Enclosure), CEC, SGIP and OGPe (PR) Listed.
Application Scenarios	Off-Grid, Backup Power, Micro-grids

ACCESSORIES

SLIMLINE ENCLOSURE



BATTERY MODULE COMBINER



QUICK STACK RACK



PRODUCT COMPATIBILITY



victron energy
BLUET POWER

LU X POWER TEK



... AND MORE

COMMERCIAL & INDUSTRIAL ENERGY STORAGE SYSTEMS

Discover's commercial battery storage solutions are engineered for flexibility and scalability from light commercial facilities to utility-scale installations. Whether you need commercial energy storage for a micro-grid or industrial energy storage for peak shaving, our product families provide certified, bankable solutions.

Seamless Integration

Pre-tested compatibility with major PCS brands and standard Modbus/CAN bus protocols.

Certified

UL 9540, UL 9540A, and UL 1973 certified systems for simplified permitting and project approval.

End-to-End Support

From pre-sales system design and integration support to commissioning and after-sales service.

Trusted by Leaders

As one of the leading battery ESS companies, we have a proven track record of successful deployments.

Battery Storage for Commercial Hybrid Inverters

Scalable for < 1000 V, 100 kWh to 4 MWh systems

CAB-106



CAB-160



CAB-210



CAB-266



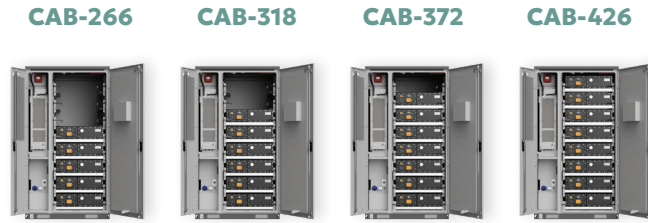
Battery Configuration	104S1P (2 packs @ 52S1P)	156S1P (3 packs @ 52S1P)	208S1P (4 packs @ 52S1P)	260S1P (5 packs @ 52S1P)
Nominal Energy Capacity	106 kWh	160 kWh	212 kWh	266 kWh
Usable Energy Capacity	104 kWh	157 kWh	209 kWh	261 kWh
Battery Max. Continuous Power	52 kW	79 kW	104 kW	131 kW
Round-trip Efficiency	94% (25°C, 0.5C)			
System Nominal Voltage	332.8 V	499.2 V	665.6 V	832.0 V
System Operating Voltage	312 - 358.8 V	468 - 538.2 V	624 - 717.6 V	780 - 897 V
Nominal Cell Capacity	320 Ah			
Usable Cell Capacity	314 Ah			
Max. Continuous Current	157 A (C/2)			
Internal Fuse Rating	315 A			
Certifications	UN38.3, UL1973, UL9540A, UL9540 DC ESS, IEC62619, IEC62933, IEC61000			

PRODUCT INTEGRATION



Commercial & Industrial Energy Storage Solutions

For < 1500 V systems from 1 MWh and above, customizable BESS solutions paired with your choice of PCS and EMS.



AES CABINET
& CAES
PCS INTEGRATIONS

SINEXCEL

DYNAPOWER

ComAp

- Discover offers pre-engineered packages, including Sinexcel and Dynapower PCS.
- CAB and CAES products are compatible with many other PCS and controls brands.

Battery Configuration	260S1P (5 packs @ 52S1P)	312S1P (6 packs @ 52S1P)	364S1P (7 packs @ 52S1P)	416S1P (8 packs @ 52S1P)
Nominal Energy Capacity	266 kWh	318 kWh	372 kWh	426 kWh
Usable Energy Capacity	261 kWh	313 kWh	366 kWh	418 kWh
Battery Max. Continuous Power	131 kW	157 kW	183 kW	209 kW
Round-trip Efficiency	94% (25°C, 0.5C)			
System Nominal Voltage	832.0 V	998.4 V	1164.8 V	1331.2 V
System Operating Voltage	780 - 897 V	936 - 1,076.4 V	1,092 - 1,255.8 V	1,248 - 1,435.2 V
Nominal Cell Capacity	320 Ah			
Usable Cell Capacity	314 Ah			
Max. Continuous Current	157 A (C/2)			
Internal Fuse Rating	315 A			
Certifications	UN38.3, UL1973, UL9540A, UL9540 DC ESS, IEC62619, IEC62933, IEC61000			

Containerized Advanced Energy System (CAES)

The CAES Containers offer compact, scalable 20-foot containerized energy storage solutions engineered for high-capacity energy storage and dispatch. These systems are ideal for various applications, including industrial self-consumption, grid stabilization, micro-grid support, off-grid applications, and EV charging infrastructure.



Feature	3.4H-CAES	3.8H-CAES	4.2H-CAES	4.6H-CAES	5.0H-CAES
Usable Energy Capacity	3.34 MWh	3.76 MWh	4.18 MWh	4.6 MWh	5.01 MWh
Continuous Power	1.67 MW	1.88 MW	2.08 MW	2.29 MW	2.50 MW
Nominal Voltage	1,331.2 V				
System Operating Voltage	1,164.8 V - 1,476.8 V				
Racks	8	9	10	11	12
Max. Continuous Current	1,544 A	1,737 A	1,930 A	2,123 A	2,316 A
Cells/Rack	416				
Round-Trip Efficiency	Up to 96%				
Thermal Management System	Integrated Liquid Chiller/PTC System				
Cooling Method	Liquid Cooling				
IP Rating	IP55 (NEMA 3R)				
Certifications	UN 38.3, UL1973, UL9540A, UL9540, IEC62619, IEC62933, IEC61000 (NFPA 68 & 69, LSFT)				

Communications & Integrations

Market Driven, World-Class Solutions

Discover Energy Systems designs and builds market-ready hardware, firmware and software as a unified ecosystem.

Smart System Management. LYNK II Gateway, LYNK ACCESS and LYNK Cloud platforms deliver advanced battery control with tools that optimize performance and ensure smooth integration. Remote visibility through live monitoring and data insights that help systems run efficiently.

Seamless Integration. Expertise in integrating with third-party devices via industry-standard protocols.

Supported protocols include:

- CAN: CANopen, J1939, SAE, RV-C, and others.
- Modbus: Serial and TCP/IP for industrial applications.
- Robust cloud infrastructure for real-time monitoring, data analytics, and fleet management.

Interoperability. Our solutions enable seamless connectivity and interoperability, empowering customers to maximize system performance and compatibility across a diverse range of applications.



Why Choose Discover Energy Systems

Proven Expertise

Trusted for 75+ years, we provide dependable, innovative energy solutions for evolving market needs.

Comprehensive Solutions

A full range of storage products and power electronics for residential, commercial, utility, and motive power applications.

Global Reach, Local Support

We operate a worldwide distribution network and provide dedicated OEM and aftermarket customer service.

Cutting-Edge Technology

Advanced BMS, cloud platforms, and firmware for real-time monitoring and system optimization.

Scalable Production Capacity

Access to 100 GWh of cell production by 2026 enables us to meet growing market demand while maintaining cost efficiency and product quality.

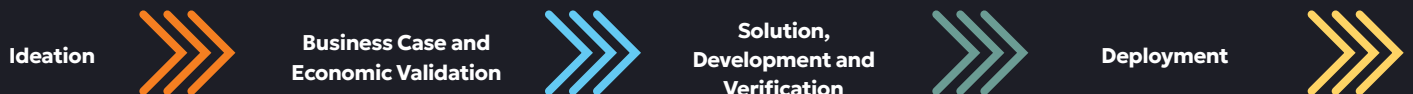
Tailored Solutions

Customizable products and private-label opportunities to meet unique needs.

New Market Development

Driving Market-Ready Solutions

Do you have unique requirements? Discover Energy Systems offers a private label program, allowing your business to create custom energy systems tailored to your needs. We take a pragmatic approach to innovation, focusing on cultivating ideas that are aligned with market needs. By prioritizing feasibility and leveraging an efficient development and verification process, we move faster than traditional organizations. Our goal is to deliver reliable, market-ready solutions without unnecessary delays.



Commercialization Expertise

Discover Energy Systems turns concepts into market-ready energy storage and power solutions, focusing on real market needs to ensure every product achieves commercial success.

Dynamic Engineering & Partnerships

Discover leverages engineering talent, trusted vendors, and strategic partners to deliver innovative solutions tailored to evolving market needs.

Pragmatic, Business-Driven Approach

We prioritize strong business cases, ensuring efficient execution with expertise in design, development, manufacturing, and deployment.

End-to-End Life Cycle Support

From initial concept to final deployment, we manage the entire product life cycle, ensuring safety, performance, and compliance at every step.



www.discoverenergysys.com

HOW TO WORK WITH US & GET STARTED

Partner with Discover Energy Systems. Collaborating with Discover means gaining access to decades of expertise, market-driven innovation, and a global network of trusted partners. Whether you need tailored solutions, private-label opportunities, or integration support, our team is ready to deliver.

Simple Engagement Process

Reach Out

Share your project goals, challenges, or product needs with our team.

Collaborative Assessment

Together, we'll evaluate the business case and outline potential solutions.

Customized Development


Our engineering and vendor network will bring your vision to life with market-ready solutions.


Global Support at Your Fingertips. With a worldwide presence and regional teams, we provide responsive support tailored to your market.

Start the Conversation Today. Ready to innovate? Contact us to explore how Discover Energy Systems can help your business thrive.

We want to hear from you.

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