



SOLAR ENERGY STORAGE

COMMERCIAL ENERGY STORAGE

TRANSPORTATION & MOTIVE

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.

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

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.

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. Our regional support ensures quick response times and tailored solutions.

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 2025 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.



Residential Energy Storage Solutions

Residential energy storage solutions tailored to meet diverse homeowner needs. The AES RACKMOUNT and HELIOS ESS 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 Listed.
Application Scenarios	Whole-Home Backup, Off-Grid

ACCESSORIES

CONDUIT BOX



LIFTING HANDLES



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 OGP (PR) Listed.
Application Scenarios	Off-Grid, Backup Power, Micro-grids

ACCESSORIES

SLIMLINE ENCLOSURE



BATTERY MODULE COMBINER



QUICK STACK RACK



AES 210HV Outdoor C&I Energy Storage Cabinet

The AES 210HV Outdoor Energy Storage Cabinet delivers 209 kWh of usable energy through seamless integration with high voltage hybrid C&I inverters. Pre-assembled and shipped as a complete solution, the AES 210HV drastically reduces installation time and on-site costs. Designed with integrated liquid cooling and heating, it sets the performance standard for battery energy storage even in the harshest environments, making it the ideal choice for commercial and industrial energy resilience.

SPECIFICATIONS	AES 210HV
Nominal Energy	212kWh
Nominal Voltage	665.6V
Round-Trip Efficiency	94% (25°C, 0.5C)
Certifications / Listings	UN38.3, UL1973, UL9540A, UL9540, CEC and SGIP Listed.
Application Scenarios	Industrial & Utility Self-Consumption, Grid Stabilization, Micro-grid Integration, EV Charging Solutions, Infrastructure Enhancement



The AES 210HV integrates with C&I hybrid inverters for simpler installation



Simple Installation

By combining critical components into one system and integrating with C&I hybrid inverters, we remove the need for complex micro-grid controllers, EMS controllers, and additional transformers—making installation as straightforward as residential setups.

Cost-Efficient and Faster ROI

Less required system components translate to reduced installation time and labour, lowering overall project costs, making C&I solar projects more accessible and profitable, even at smaller scales.

Easily Scalable

From 200 kWh to 4.8 MWh, our modular platform is designed to easily expand without the complexity of traditional systems, adapting the solution to varying projects and allowing them to grow without extensive redesigns.

Micro-grid & Off-Grid Functionality

Supports demand response, peak shaving, and backup power for grid-tied applications, and provides consistent, grid-independent power for off-grid and micro-grid scenarios.

Technology

LYNK Communication Gateway

Advanced battery management and integration system.



Cloud Monitoring Solutions

Remote monitoring and data insights for enhanced system performance.

LYNK CLOUD

Firmware & Software Updates

Tools for optimizing performance and compatibility.

LYNK ACCESS

Commercial & Industrial Energy Storage Solutions

Commercial and Industrial Energy Storage Solutions, ranging from small commercial installations to large-scale utility projects, providing scalable and reliable systems tailored to optimize energy management across diverse applications.

AES Cabinets

The AES Cabinet solutions deliver high-capacity lithium-based energy storage systems, ideal for commercial and industrial scale applications, with modular designs offering scalability, reliability, and seamless integration with modern energy infrastructure.

The AES Cabinets are designed to meet the diverse needs of commercial and industrial (C&I) applications, offering scalable power and robust performance for any energy storage requirement.



Cabinet Configuration	208S1P (4 packs @ 52S1P)	260S1P (5 packs @ 52S1P)	312S1P (6 packs @ 52S1P)	364S1P (7 packs @ 52S1P)	416S1P (8 packs @ 52S1P)
Nominal Energy	213 kWh	266 kWh	319 kWh	373 kWh	426 kWh
Nominal Voltage	665.6 V	832.0 V	998.4 V	1164.8 V	1331.2 V
Round-Trip Efficiency	Up to 94%				
Certifications / Listings	UN38.3, UL1973, UL9540A, UL9540, IEC62619, IEC62933, IEC61000, CEC and SGIP Listed.				
Application Scenarios	Small C&I Applications Sub-1000VDC Systems: Backup Power, Self-Consumption, Micro-grids and Off-grid 200 kWh - 5 MWh		C&I Applications Sub-1500VDC Systems: Industrial Peak Shaving, Demand Mitigation, Rate Arbitrage, EV Infrastructure Support, Micro-grids 400 kWh - 10 MWh		

Scalable Power

Flexible capacity ranging from 200 kWh to multi-megawatt systems, adaptable for various C&I applications.

Built for Extremes

Outdoor-rated systems with advanced thermal management to ensure optimal performance in challenging environments.

Failsafe Security

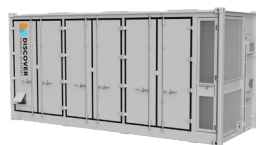
Equipped with fire suppression, smoke/heat detection, and emergency shut-off features for unparalleled safety.

Effortless Integration

Preassembled modular designs enable rapid deployment with hybrid inverters and seamless compatibility with leading C&I inverter systems.

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	CAES 5M
Nominal Energy	5MWh
Nominal Voltage	1300V
Round-Trip Efficiency	Up to 96%
Certifications / Listings	UN38.3, UL1973, UL9540A, UL9540, IEC62619, IEC62933, IEC61000, CEC Listed
Application Scenarios	Industrial & Utility Self-Consumption, Grid Stabilization, Micro-grid Integration, EV Charging Solutions, Infrastructure Enhancement

High Energy Density. Advanced liquid thermal management within a compact footprint.

Exceptional Efficiency. Up to 96% round-trip efficiency (RTE) for DC charge/discharge.

Customizable Scalability. Configurable to meet diverse power and capacity requirements, with easy expansion options.

High Power Delivery. Supports high-current distribution up to C/2.

Superior Safety. Certified to UL9540A and NFPA855 standards, featuring integrated fire protection systems, including temperature, smoke, and gas detection, aerosol suppression, and active deflagration ventilation.

Long Lifespan. Designed for a 20-year service life with easy maintenance and repair capabilities.

Easy Installation. Compatible with third-party SCADA and EMS systems, ensuring seamless integration.

Integrations

Market Driven, World-Class Solutions



Innovative Hardware & Firmware Development. Discover Energy Systems excels in creating market-driven, world-class hardware and firmware tailored to customer needs. Our products are built to meet stringent safety certifications, ensuring reliability and compliance across global markets.

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.

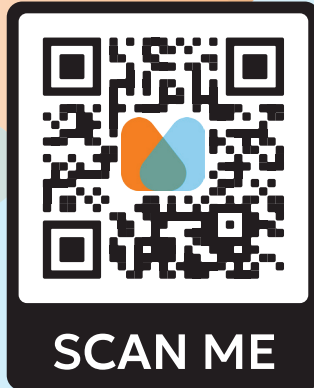
Interoperability. Our solutions enable seamless connectivity and interoperability, empowering customers to maximize system performance and compatibility across a diverse range of applications.

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.





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.



info@discoverenergysys.com



+ 1.604.242.0350



13711 International Pl Unit 320,
Richmond, BC, V6V 2Z8, Canada