

Discover® ADVANCED ENERGY

Lithium-Ion Battery Systems

DISCOVER OUR LITHIUM ADVANTAGES



DISCOVER'S LiFePO_4 IS THE BATTERY FOR BUSINESS.

- Closed loop communication
- Real time interaction
- LiFePO_4 chemistry

OTHERS DON'T COME CLOSE.

Discover® | LYNK

The powerful plug and play communications and monitoring device that allows Discover Advanced Energy System (AES) batteries to close the loop with external components that are not natively supported by AES Lithium batteries. The primary set of external devices is considered to be renewable and stored energy power electronics like Inverter/chargers, charge controllers, and related accessories such as auto generator starts.

LYNK is the ideal way to keep an uninterrupted eye on your energy storage systems.

RUSH

Discover's RUSH technology enables Discover AES to handle high charge and discharge current requirements common to industrial, telecom/UPS and solar applications.



Discover AES are designed to replace most lithium batteries that can only handle steady, low current loads over long durations. They overload or restrict their output when they are hit with inductive in-rush from inverters and demanding motor loads. RUSH by Discover is the capability, unique to the Battery Management System design, that allows our batteries to handle the high current charge and discharge demands of highly equipped off-grid homes and businesses.

PARALLELPOWER

Scalable energy storage to meet the runtime and autonomy requirements unique to off-grid solar and whole home backup power.



The intelligent Battery Management System (BMS) capabilities of Discover AES provide communication and coordination of up to 20 units in parallel over the proprietary AEBus allowing for usable capacities between 6-120 kWh per battery string. Paralleled batteries communicate, coordinate and synchronize over AEBus, which manages cell balancing, allows for linear scaling of charge and discharge current capacities, and limits external network traffic to a single BMS.

SENTRY

Discover AES with SENTRY are cleaner and safer than lead acid batteries. Stable and high-performing LiFePO4 cells managed by our proprietary, 3rd generation BMS design have been tested and certified to stringent UL1973 and UN38.3 standards for safety and transport.



When Discover decided to develop an advanced battery for residential solar applications we considered each lithium chemistry before finally committing to LiFePO₄.

With application knowledge gained from years of observing Discover's own lead acid batteries in the field, we chose to use Lithium Iron Phosphate (or LFP or LiFePO₄) cells as they are ideally suited to the demands of off-grid homes.

LiFePO₄ works for stationary / solar applications because it:

- Is very thermally stable with no risk of thermal runaway
- Offers the longest cycle life
- Can be recharged at 1C rate
- Can handle heavy loading and rapid discharge rates

Tested and certified:

UL1973 - the regulatory standard applicable for energy storage in solar home applications
UN38.3 - required to legally and safely transport lithium batteries

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We are a company of passionate people that understand that our customers come first and strive every day to ensure we exceed the high standards that we have set.”

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Discover[®]

Innovative Battery Solutions