

ABOUT DISCOVERY BATTERY

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.

Discover Battery is a Canadian company headquartered in Vancouver, British Columbia, Canada.

INTRODUCING

Discover® | LYNK

LYNK Communication Gateway aggregates and displays in real time the State of Charge for Discover AES LiFePO₄ batteries.

Unlock the full potential of a Discover AES LiFePO₄ Battery by enabling the internal Battery Management System (BMS) to optimize and dynamically manage the charge and discharge configurations of the world's best off-grid inverter chargers and solar charge controllers. Turn a good system into a great one with up to 25% improvement in 0% to 100% SoC recharge time.

Remotely monitor the aggregate SoC for a string of AES LiFePO₄ batteries and data log multiple sites using the data monitoring services offered by multiple brands of off-grid inverter systems.



Discover®
Innovative Battery Solutions

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discoverbattery.com

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**REDEFINING
RENEWABLE
ENERGY
STORAGE
SYSTEMS**



DRY CELL SERIES

THE ENERGY STORAGE WORKHORSE FOR RENEWABLE APPLICATIONS.

DRY CELL SOLAR batteries deliver a resilient solution for renewable energy storage by utilizing graphite enhanced alloys, carbon additives and hydro polymer technology.



6VRE-1500FD

Voltage: 6V
Nominal Capacity (20Hr): 225Ah / 1.5kWh
Useful Capacity: 112Ah / 0.75kWh (50% DOD)



6VRE-2700FD

Voltage: 6V
Nominal Capacity (20Hr): 408Ah / 2.5kWh
Useful Capacity: 204Ah / 1.25kWh (50% DOD)



12VRE-3900FD

Voltage: 12V
Nominal Capacity (20Hr): 300Ah / 3.6kWh
Useful Capacity: 150Ah / 1.8kWh (50% DOD)



ENHANCED RUN TIME

- High Amp Hour Capacity
- High Consistent Operating Voltage
- 50% Depth of Discharge Above 2.05 Volts Per Cell



EXTREME TEMPERATURES

- Longer Life across High Temps than AGM Battery
- Longer Runtime across Low Temps than Lead Acid Battery



EXTENDED SERVICE LIFE

- Consistent Runtime Over Operational Life
- 600+ Cycles IEC 896-2
- 1300+ Cycles 50% Depth of Discharge



RESILIENCE

- Superior Partial Stage of Charge Operation than AGM / GEL
- Resilience to Over-charge and Over-discharge than AGM
- Supports Inrush Currents better than GEL



RELIABLE, SAFE, CERTIFIED

- VRLA Dry Cell
- UL, CE Health Safety Certified
- Flame Retardant Case Options V0 HL3 (DIN EN 45545-2)

OPzV TUBULAR GEL SERIES

THE LOWEST TOTAL COST OF OWNERSHIP AMONGST LEAD ACID TECHNOLOGIES.

Tubular Plate construction with Gel is a proven battery technology that provides high cycle life and the longest life expectancy amongst lead acid battery technologies. Discover Tubular plate batteries feature sliding pole terminals that prevent battery case damage caused by the expansion and contraction of battery plates during cycling.



2VRE-3200TG*

Voltage: 2V
Nominal Capacity (20Hr): 1265Ah / 2.8kWh
Useful Capacity: 632Ah / 1.4kWh (50% DOD)



2VRE-4400TG*

Voltage: 2V
Nominal Capacity (20Hr): 1782Ah / 4.0kWh
Useful Capacity: 891Ah / 2.0kWh (50% DOD)



2VRE-5900TG*

Voltage: 2V
Nominal Capacity (20Hr): 2376Ah / 5.3kWh
Useful Capacity: 1188Ah / 2.6kWh (50% DOD)



ENHANCED RUN TIME

- Ultra High Amp Hour Capacity
- 50% Depth of Discharge above 1.97 Volts Per Cell



RELIABLE, SAFE, CERTIFIED

- Tubular, VRLA, GEL
- Eurobat Long Life Classification
- IEC 60896-21/22 Stationary Battery
- IEC 61427 Photovoltaic Battery



EXTENDED SERVICE LIFE

- 20 Year Design Life
- 2,950 Cycles to 50% Depth of Discharge



SCALABLE ENERGY STORAGE

- High Capacity, Minimal Parallel Connections
- No DC Voltage Restrictions
- Complete Systems with Rack and Cable Packages

*24V and 48V packaged systems available that include batteries, rack with two risers, inter-cell and riser connecting cables.

- Additional capacities and Flooded Tubular batteries available.
- In compliance to Eurobat Long Life, IEC 60896-21/22, IEC 61427, EN50272-1, EN50272-2, DIN 40742, UN 2800 US DOT

AES LiFePO₄ SERIES

THE LOWEST TOTAL COST OF ENERGY STORAGE FOR OFF-GRID AND MICRO-GRID APPLICATIONS.

Discover AES batteries have a 10 year energy throughput warranty for stationary applications. Each AES LiFePO₄ battery features an independent BMS that can be parallel networked to other AES LiFePO₄ batteries and then externally connected to the top brands of off-grid inverters using the AES LYNK Communication Gateway.

42-48-6650

Voltage: 48V
Useful Capacity: 130Ah / 6.65kWh 100% DOD
Continuous Charge / Discharge (1C): 130A
Max Peak Discharge (3 sec): 300A_{dc}
Certifications: UL1973, IEC62133 UN38.3 DOT



44-24-2800

Voltage: 24V
Useful Capacity: 110 Ah / 2.8 kWh 100% DOD
Continuous Charge / Discharge (1C): 110A
Max Peak Discharge (3 sec): 300A_{dc}
Certifications: UL1973, IEC62133 UN38.3 DOT



ENHANCED RUN TIME

- Double the Run Time of Lead Acid Battery
- 100% Usable Capacity
- 100% Depth of Discharge



SURGE POWER

- Power for Off-Grid Inverter Surge Demand
- Peak 3C Discharge Rate
- 1C Continuous Discharge Rate



EXTENDED SERVICE LIFE

- Three Times the Life of Lead Acid Battery
- Unlimited Partial State of Charge Cycles
- 10 Year Energy Throughput Stationary Warranty



HIGH EFFICIENCY

- 30% Less Energy Waste Compared with Lead Acid Battery
- 95% Round Trip Battery Efficiency



RELIABLE, SAFE, CERTIFIED

- LiFePO₄ is Safe and Maintenance Free
- Integrated High Current BMS
- Field Serviceable BMS
- IP 55 Rated



SCALABLE ENERGY STORAGE

- LiFePO₄ Energy Storage to Over 120kWh
- Linear Scaling of LiFePO₄ Charge and Discharge Capacity
- Integrated System Wide BMS Communication



FAST CHARGING

- Reduce Generator Fuel Consumption
- 1C Continuous Charge Rate, Regardless of SoC
- Up to 5x Faster than New Lead Acid Batteries
- Up to 10x Faster than Old Lead Acid Batteries



DYNAMIC PERFORMANCE

- Real-Time Optimization of the Charge Rate
- Up to 25% Faster Recharge from 0% to 100% SoC
- Internal BMS Plug-and-Play Configuration with Power Conversion
- BMS Reports SoC and kWh Logs, Fault Logs to System