

aries

Lithium Iron Phosphate (LFP) Battery



More Miles. Less Space.

Ideal for commercial and fleet vehicles, the Aries™ battery pack from Our Next Energy (ONE) delivers industry leading energy density using more abundant materials - saving costs, reducing CO₂ emissions, and eliminating supply chain constraints.



Battery Pack Performance

Energy
79 kWh

Chemistry
LFP

Mass
550 kg

Volume
285 L

GED
144 Wh/kg

VED
287 Wh/L

Dimensions
1630 x 760 x 229 mm

Volume Cell-to-Pack
76%

Voltage
348 V

Peak Power
120 kW

Cont. Power
79 kW

Cycle Life
3000 Cycles



Using lithium iron phosphate (LFP) chemistry that is free of nickel and cobalt, Aries' structural architecture yields 76% cell-to-pack density to deliver the most energy dense LFP battery in the market. This density means you can travel more miles with a battery pack that takes up less space.

Entering full-scale production in 2023.

Aries opens up sustainable routes for commercial and fleet vehicles.

Why LFP?

- + **Peace of Mind**
Durable LFP chemistry mitigates thermal runaway
- + **More Sustainable**
Uses sustainable raw materials that are up to 10,000 times more plentiful than lithium batteries that rely on cobalt and nickel
- + **Low Maintenance**
LFP chemistry doesn't require special maintenance to extend lifespan; permits charging up to 100% without degradation to allow the user to get the most out of the battery

Validated and tested according to engineering standards:

- + SAE J1798 Electrical Performance
- + SAE J2380 Structural Performance Testing
- + ISO 16750 and IEC 60068 Environmental Performance Testing
- + SAE J2464 Abuse Testing
- + IEC 60529 Intrusion Testing
- + SAE J2721 Corrosion Resistance Testing
- + SAE J2288 Lifetime Durability Testing
- + Certification for shipping per UN 38.3
- + EMC conformance to FMC1278
- + Miscellaneous characterization testing per ISO and IEC specifications

Features:

- + **Higher Energy Density**
76% cell-to-pack architecture yields more energy density than the leading competitor
- + **More Cargo Capacity**
Improved energy density means a smaller battery pack that takes up less space, allowing more cargo capacity
- + **Scalable**
108 cells in a scalable architecture allows for series and parallel configurations to meet your power and energy needs
- + **Increased Efficiency**
3,000 cycles at full depth of discharge intended service life
- + **Heat Control**
Liquid cooling loop thermal management system
- + **Overcharge Protection**
Integrated BMS with redundant current measurement and overcharge protection
- + **Serviceable Design**
BMS designed to allow for easy access and serviceability

About ONE

Our Next Energy, Inc. (ONE) is a Michigan-based energy storage technology company focused on engineering batteries that will accelerate electrification. Our vision is simple: Double the range of electric vehicles; use safer, more sustainable raw materials; and establish a localized supply chain. ONE was founded in 2020 by Mujeeb Ijaz, a leader in the battery industry with more than 30 years of experience in developing electric vehicles and battery systems technologies.

For sales inquiries, contact sales@one.ai

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