



Auxiliary Power for Modern Work Trucks.

ELiMENT® 12V LiFePO₄ Batteries are high performance auxiliary power solutions designed to support the increasing electrical demands of modern work trucks.

When integrated with the EPEQ® 12V Electrification Platform, ELiMENT® Batteries provide reliable, engine-off power for 12V loads and inverters while protecting the vehicle starting system and supporting idle reduction requirements. Designed to support hydraulic power units, lube skids and transfer pumps, electric cranes, dump bodies, and lifting accessories such as jacks, winches, and fans, ELiMENT® Batteries help keep critical equipment operating without engine idle.



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ELIMENT® 12V LIFEPO4 BATTERIES

KEY FEATURES

- Lithium Iron Phosphate (LiFePO₄) chemistry for superior safety & stability
- High energy density with significant weight reduction vs. AGM/lead acid batteries
- Full rated power output down to 8% state-of-charge (SOC)
- Fast charge capability with high acceptance rates
- Zero maintenance – no watering, no sulfation
- Integrated Battery Management System (BMS) with multi-level protections
- Integrated heaters for cold weather charging & operation
- Parallel connect capable for scalable runtime & power

BATTERY MANAGEMENT & PROTECTION

Integrated EPEQ® Battery Management System (BMS) — Integrated protections

- Over-current
- Over-charge & over-discharge
- Over-temperature & under-temperature

SYSTEM CONFIGURATION

- Supports parallel connection for greater capacity & runtime
- Compatible with alternator charging, DC-DC charging & shore power systems

LIFESPAN & RELIABILITY

- 3,000 cycle life @ 80% depth of discharge
- 8–10 years typical service life (application dependent)
- 24+ months shelf life
- Zero sulfation or memory effect for reliable performance

GENERAL & MISSION CRITICAL LOADS

- Inverter powered AC tools
- Communications & telematics equipment
- Safety lighting & beacons
- Monitoring & control systems
- UPS style backup for critical electronics

CERTIFICATIONS

- UL1973 (entire assembly)
- IP65 (entire assembly)

Specifications	100Ah - Premium	100Ah - Premium Plus	200Ah - Premium Plus	300Ah - Premium Plus
Nominal Voltage	12.8V	12.8V	12.8V	12.8V
Capacity	1280Wh	1280Wh	2560Wh	3840Wh
Low Voltage Cutoff	9.6V	9.6V	9.6V	9.6V
High Voltage Cutoff	15.6V	15.6V	15.6V	15.6V
Charge Current	50A	50A	100A	150A
Max Discharge Current (3 Seconds)	150A	150A	300A	450A
Continuous Discharge Current	100A	100A	200A	250A
Battery Group Size	Group 31	Group 31	—	8D
Dimensions	13L x 7W x 10H	13L x 7W x 10H	15L x 8W x 10.5H	20.5L x 10.7W x 8.9H
Weight	31 lbs	31 lbs	44 lbs	62.5 lbs
Terminal Type	3/8-16 UNC Thread	3/8-16 UNC Thread	3/8-16 UNC Thread	3/8-16 UNC Thread
Auxiliary Charging	—	✓	✓	✓

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