



CORE 48-35.3

Lithium Ion Battery Pack



ELECTRICAL SPECIFICATIONS

Voltage (Nominal)	51.2 V
Capacity @ 5°C, 25 °C (Typical)	690 Ah
Energy	35.3 kWh
Recommended Charge Voltage	58.4 V
Discharge Cutoff Voltage	40 V
Charge Float Voltage Range	55.2 - 58.4 V
Continuous Current/Peak (30s)	138 A / 500 A
Recommended Charge CCCV	≤ 333 A to 58.4 V
Discharge Temperature	-10 °C to 50 °C
Charge Temperature	0 °C to 45 °C
Self Discharge @ 25 °C	< 2% per Month
Specific Energy	137 Wh/Kg
Energy Density	240 Wh/L

MECHANICAL SPECIFICATIONS

Height (Excluding bolts)	242.7 mm (9.55 in)
Width	895.35 mm (32.25 in)
Length	889 mm (35 in)
Weight	258.5 kg (570 lbs)
Terminal Hardware	M8 x 1.25
Terminal Torque	25 N.m. (222 in-lbs)
Enclosure Material	Aluminum
IP Rating	IP67

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All specifications are subject to change without notice. All information provided herein is believed, but not guaranteed, to be current and accurate.

KEY FEATURES & ADVANTAGES

Lithion Battery offers safe, reliable, and mobile energy solutions for storage and transportation. With a high-performance 51.2V design based on **Lithium Iron Phosphate** chemistry, it provides superior safety, long cycle life, and zero maintenance.

Ideal for: AGVs, GSE, UTVs, Electric Utility Vehicles



Efficient & Fast Charging

High charge efficiency of >90%. Increases productivity, reduces energy costs and eliminates the need for investments in battery change out systems.

High, Uniform Discharge Voltage

Delivers stable voltage during discharge. Increases equipment performance and reduces motor heat.

Robust Safety

Multiple levels of protection prevent operation outside of current, voltage, and temperature limits.

- Inherently safe LFP technology
- No corrosive acid leaks
- No explosive gassing

Lithion Proprietary XB BMS

- CANBus communication
- Designed to pass rigorous safety certifications (E.g. UL and IEC regulations)
- Optional remote monitoring capability*
- State of Health
- Real-time clock and event logging

Environmentally Safe

Does not contain toxic metals such as cobalt, lead, cadmium, nor any corrosive acids or alkalis.

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