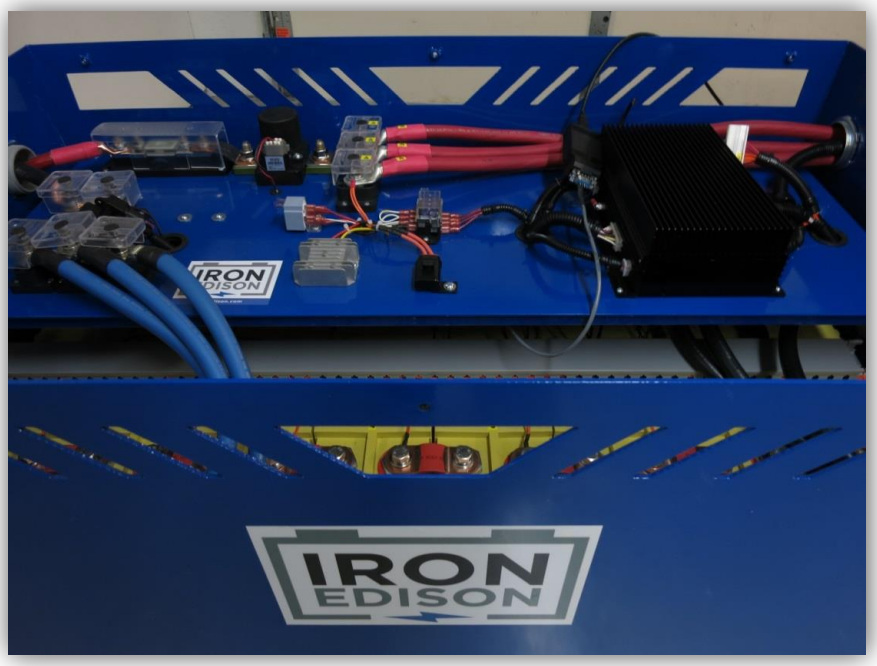
Lithium Iron Phosphate Battery Detail

Iron Edison Battery Company's Lithium Iron Phosphate batteries offer a turnkey solution for energy storage needs in a variety of applications. Iron Edison's batteries have been successfully used as solar photovoltaic energy storage in off-grid, grid-tie with battery backup, and grid backup applications.



Advantages of Lithium Iron Phosphate

- 5,000 cycles at 50% depth of discharge
- Zero maintenance
- High energy density
- Stable battery chemistry versus other lithium batteries

Advantages of Iron Edison

- Custom design
- Assembled in the USA
- Lifetime technical support

For the purposes of supplying the battery component of the prospective renewable energy project, **Iron Edison Battery Company** proposes the following battery details:

Battery Type	Lithium Iron Phosphate (LiFePO4)
Voltage	48 Volts nominal / 52 Volts actual
Enclosure	Steel metal enclosure
Wiring	Wired as a 16-cell battery bank
Battery Management System (BMS)	Battery is wired to a central BMS, programmed to monitor each individual cell in the battery bank (CAN2 communication)
State of Charge (SOC) display	Included with battery for visual confirmation of energy remaining in the battery bank
Contactors	GIGAVAC military-grade contactors included, compliant with NEC 2014 section 690.71(H)
On-board fusing	Included, compliant with NEC 2014 section 690.71(H)

Additional Photos – 48V 400Ah Lithium Iron Phosphate battery

Additional Photos – 48V 1,000Ah Lithium Iron Phosphate battery