



LITHIUM IRON BATTERY

for Renewable Energy & Backup Power Applications



SAFEST LITHIUM BATTERY

Iron Edison only uses Lithium Iron Phosphate (LiFePO₄) battery cells, which are the safest lithium-ion battery type for home or commercial use.



SMARTEST CELL MANAGEMENT

An integrated Battery Management System (BMS) actively monitors each cell and optimizes pack performance.



MAXIMUM COMPATIBILITY

Iron Edison batteries are compatible with all major brands of inverters.



ASSEMBLED IN AMERICA

Designed and assembled in Colorado using the best quality components, every Iron Edison Lithium Iron battery is built to last for decades.



SUPERIOR SUPPORT

Every Lithium Iron battery comes with a 10-year performance guarantee, along with lifetime technical support.

BATTERY SPECIFICATIONS

Battery Chemistry	Lithium Iron Phosphate [LiFePO ₄]
Battery Type	Deep-Cycle Rechargeable, Sealed, Maintenance-Free
Safety Features	Integrated battery management system (BMS), automatic DC disconnect, inline fuse
Battery Management System	Included; monitors cell and pack voltage, ambient and cell temperature; current sensing
Nominal Voltage	3.25 Volt [per cell]
Charging Voltage	3.45 Volt [per cell]
Efficiency	95%
Cycle Life	> 7,000 cycles at 70% DOD, > 5,000 cycles at 80% DOD
State of Charge Usage Window	20% - 98% state of charge
Self Discharge	Less than 2% per month
Operating Temperature	0 deg C to 48 deg C [32 deg F to 113 deg F]
Warranty	10 years, full replacement for first 24 months, pro-rated for months 25-120
Technical Support	Unlimited for life of battery

720-432-6433
IronEdison.com

BATTERY OPTIONS & DATA

48 VOLT LITHIUM IRON BATTERY

(52V Actual, 16 x 3.25V LiFePO₄ cells in series)

CAPACITY Amp-hours (Ah)	TOTAL ENERGY Kilowatt-hours (kWh)	USABLE ENERGY Kilowatt-hours (kWh)	MAX POWER Kilowatts (kW)	OPERATING VOLTAGE Volts DC	STACKABLE METAL CASES Quantity	DIMENSIONS Depth x Width x Height	TOTAL WEIGHT (lbs)
2,100 Ah	110 kWh	88 kWh	30 kW	48-56 VDC	4 cases	27" x 48" x 30"	2,800 lbs
2,800 Ah	146 kWh	117 kWh	30 kW	48-56 VDC	4 cases	27" x 48" x 30"	3,500 lbs
3,500 Ah	192 kWh	154 kWh	50 kW	48-56 VDC	6 cases	27" x 48" x 30"	4,200 lbs
4,200 Ah	218 kWh	175 kWh	50 kW	48-56 VDC	6 cases	27" x 48" x 30"	4,800 lbs
4,900 Ah	255 kWh	204 kWh	50 kW	48-56 VDC	8 cases	27" x 48" x 30"	5,400 lbs



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