

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-years performance guarantee, along with lifetime technical support.

BATTERY TECHNICAL SPECIFICATIONS

Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
Battery Type	Deep-Cycle Rechargeable, Sealed, Maintenance-Free
Safety Features	Fully integrated battery management system (BMS), automatic DC disconnect, inline fuse
Enclosure	Indoor-rated steel box with removable lid
Nominal Voltage	3.25 Volt (per cell)
Charging Voltage	3.41 Volt (per cell)
Efficiency	95%
Cycle Life	5,500 Cycles at 70% DOD, 3,700 Cycles at 80% DOD
State of Charge Usage Window	20% - 95%
Self-Discharge Current	< 3% per month
Operating temperature	0 degrees C to 45 degrees 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
Battery Management System	Included; monitors cell and pack voltage, ambient and cell temperature; current sensing



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BATTERY OPTIONS & DATA

48-VOLT LITHIUM IRON BATTERY

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

CAPACITY Amp-hours (Ah)	TOTAL ENERGY Kilowatt-hours (kWh)	USABLE ENERGY Kilowatt-hour (kWh)		MAXIMUM INSTANTANEOUS POWER KiloWatts (kW)	ENCLOSURE DIMENSIONS Depth x Width x Height (inches)	ENCLOSURE QUANTITY	TOTAL WEIGHT (lbs)	OPERATING VOLTAGE
		70% DOD	80% DOD					
5-Rh Rate								
180	9.4	6.6	7.5	7.8	16.3 x 27.6 x 27.0	1	270	48 Vdc - 55 Vdc
360	18.7	13.1	15.0	7.8	20.1 x 50.3 x 27.2	1	500	48 Vdc - 55 Vdc
540	28.1	19.7	22.5	10.4	26.9 x 47.3 x 28.3	1	840	48 Vdc - 55 Vdc
700	36.4	25.5	29.1	10.4	26.9 x 47.3 x 28.3	1	840	48 Vdc - 55 Vdc
1000	52.0	36.4	41.6	20.8	30.0 x 43.0 x 28.0	2	1650	48 Vdc - 55 Vdc
1400	72.8	51.0	58.2	20.8	26.9 x 47.3 x 28.3	2	1680	48 Vdc - 55 Vdc
2100	109.2	76.4	87.4	31.2	26.5 x 87.0 x 57.0	4	2800	48 Vdc - 55 Vdc
2800	145.6	101.9	116.5	31.2	26.9 x 47.3 x 28.3	4	3360	48 Vdc - 55 Vdc
3500	182.0	127.4	145.6	52.0	26.5 x 98.0 x 57.0	8	4400	48 Vdc - 55 Vdc
4200	218.4	152.9	174.7	52.0	26.5 x 98.0 x 57.0	8	5600	48 Vdc - 55 Vdc
4900	254.8	178.4	203.8	104.0	26.9 x 47.3 x 28.3	8	5900	48 Vdc - 55 Vdc
5600	291.2	203.8	233.0	104.0	26.9 x 47.3 x 28.3	8	6720	48 Vdc - 55 Vdc

*Battery options and enclosure dimension sizes are subject to change without notice. Please contact Iron Edison for current availability

