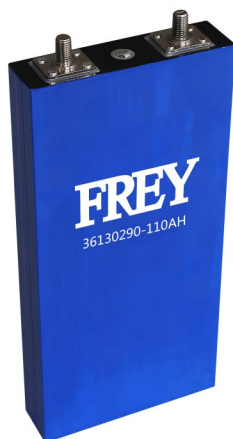




3.2V 110Ah | LITHIUM LiFePO4 CELL | FREY36130290-110PF



CELL FEATURES

- $\geq 4,000$ cycles at 80% Depth of Discharge at 0.5C
- Built with the safest Lithium Iron Phosphate chemistry in prismatic aluminum cells
- Nanometer LiFePO4 cathode ensures durability, higher power output performance, and superior low-temperature performance
- 2C constant discharge rate outperforms normal 1C rate batteries
- Consistency of each individual cell maximizes packs capacity
- Copper stud terminal design, no welding needed, can use an impact gun
- Built to last, ideal for powering heavy-duty industrial vehicles and machines

MECHANICAL SPECIFICATIONS

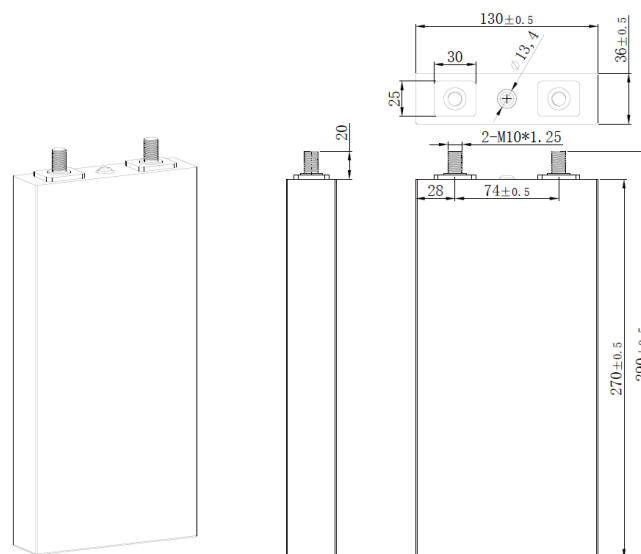
Dimensions (LxWxH)	5.1 x 1.4 x 11.4in
	130 x 36 x 290mm
Weight	2.85Kg
Terminal Type	M10 Copper Nickel Bolt
Chemistry	LiFePO4
Case Material	Aluminum

PERFORMANCE CHARACTERISTICS

Voltage	3.2V
Capacity	112Ah
Energy	358Wh
Max Average Current	220A
Max Peak Current (for 3 seconds)	550A
Peak Power (for 3 seconds)	1,760W
DC Resistance	$\leq 1\text{m}\Omega$

OPERATIONAL SPECIFICATIONS

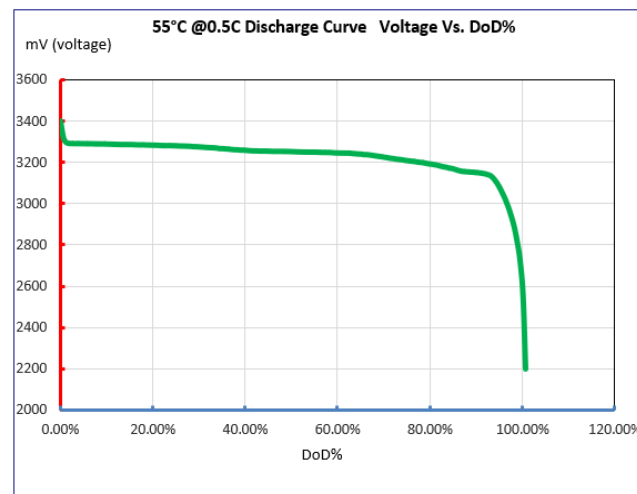
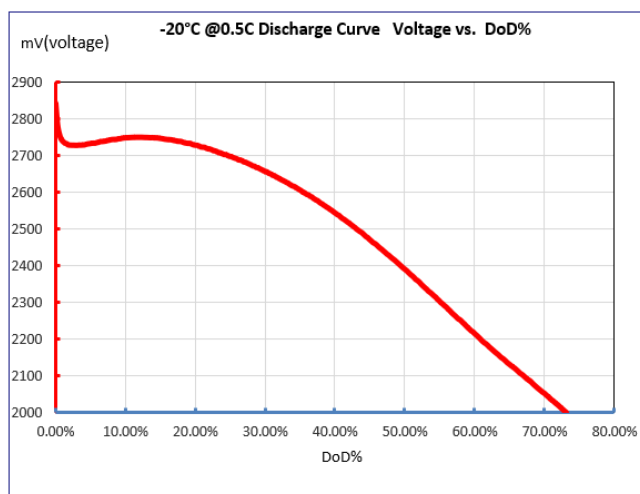
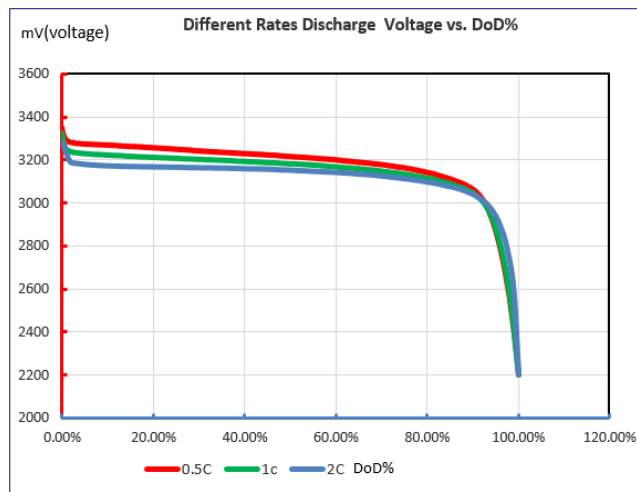
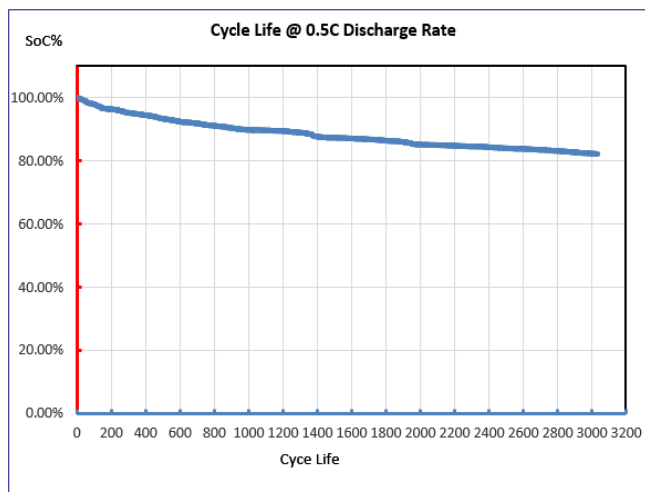
End-of-Charge Voltage	3.65V
End-of-Discharge Voltage	2.2V
Charging Method	0.5C CC/CV
Recommended Charging Current	$\leq 55\text{A}$
Max Peak Charge Current (for 10 seconds)	220A
Charge Temperature Range	0 ~ 50°C
Discharge Temperature Range	-20 ~ 50°C





3.2V 60Ah | LITHIUM LiFePO4 CELL | FREY36130190-60PF

PERFORMANCE CURVES



COMPLIANCE SPECIFICATION

Certifications	UN38.3
	CE
	ROHS
	MA (Certified to be explosion-proof in underground mining)
	ISO 9001
Shipping Classification	UN3480, CLASS 9

Frey New Energy manufactures, distributes, and sells high-quality lithium battery cells, battery modules, and custom battery packs and systems. We serve industries and markets that demand or desire constant high-capacity power output, extreme durability, longevity, and zero emissions. Our battery solutions are widely used in these applications: class 1, 2, and 3 material handling equipment, mining vehicles and locomotives, aerial work platforms like boom lifts and scissor lifts, airport GSE, floor cleaning machines, robotic AGVs, and other specialty vehicles.

