LiFePO4 Series

Model : LFPEMS32140

TESSON ENERGY is a trusted manufacturer of advanced lithium battery solutions, committed to delivering safe, efficient, and long-lasting energy storage products.

We serve a wide range of sectors including electric mobility, solar power systems, home and industrial backup, and custom battery applications.

TESSON ENERGY

LiFePO4 Battery Technical Specifications

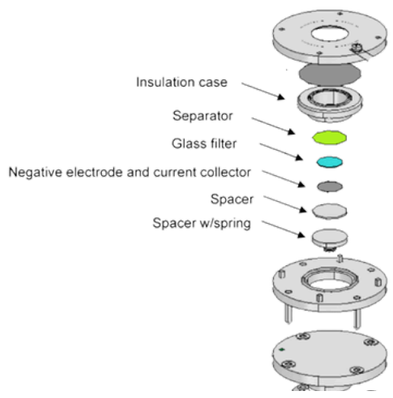
LFP Battery Specification	
Chemistry	LFP
Configurable Voltage Range(Volt)	48-76V (customizable*)
Configurable Capacity Range(Ah)	30-100Ah (customizable*)
Configuration(S)	15-24S (customizable*)
Usable Energy	95% Soc (customizable*)
Battery Warranty	3 or 5 Years* As Per Industry Norms
Electrical Characteristics	
Charging Mode	CC/CV
Standard Charging Current	0.5C
Max Continuous Discharge Current	2C
Max Pulse Discharge Current	6C @ 10sec
Operating Temperature(Charge)	0°C to 55°C
Operating Temperature(Discharge)	-20°C to 55°C
Storage Temperature	15°C to 30°C
Cycle Life	≥2000 Cycle @ (90% DOD)
BMS Specifications	
BMS Rating	15-24S (Configurable*)
Communication Interface	CAN/ RS485/ UART/ Bluetooth/ Wi-Fi
Protection	Overcharge Protection. Over-Discharge Protection. Overcurrent Protection (OCP). Short-Circuit Protection. Temperature Protection.
Smart BMS Features	Cycle Counting/ Load Detection/ Firmware Upgradability/ SOC-SOH Monitoring/ Self-Diagnosis & Fault Alarms/ Reverse Polarity Protection/ Thermal Management.
Telematics(GPRS)	(Optional)
Enclosure	
Dimension(L*W*H)mm	customizable*
IP Rating	IP65 or IP67
Output Connector	SB50/ SB75/ SB 120/ Chogori/ ESS Connector
Safety & Protection Features	Made of steel-aluminum with fire-resistant. Ventilation & gas exhaust to prevent gas build up. Thermal Management System.

TESSON ENERGY

Powerful Performance Features

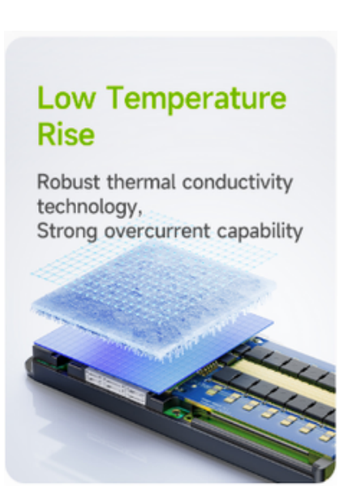
LFP batteries have high energy density, support quick charging, and can deliver high power, allowing for compact designs that save space and weight.

LFP batteries have a low internal resistance, making them suitable for applications that require high efficiency.



CID (Current Interrupt Device) permanently disconnects on overpressure.

Built-in Smart Battery Management System (BMS) to ensure the safe, efficient, and long-lasting operation of a battery packs.

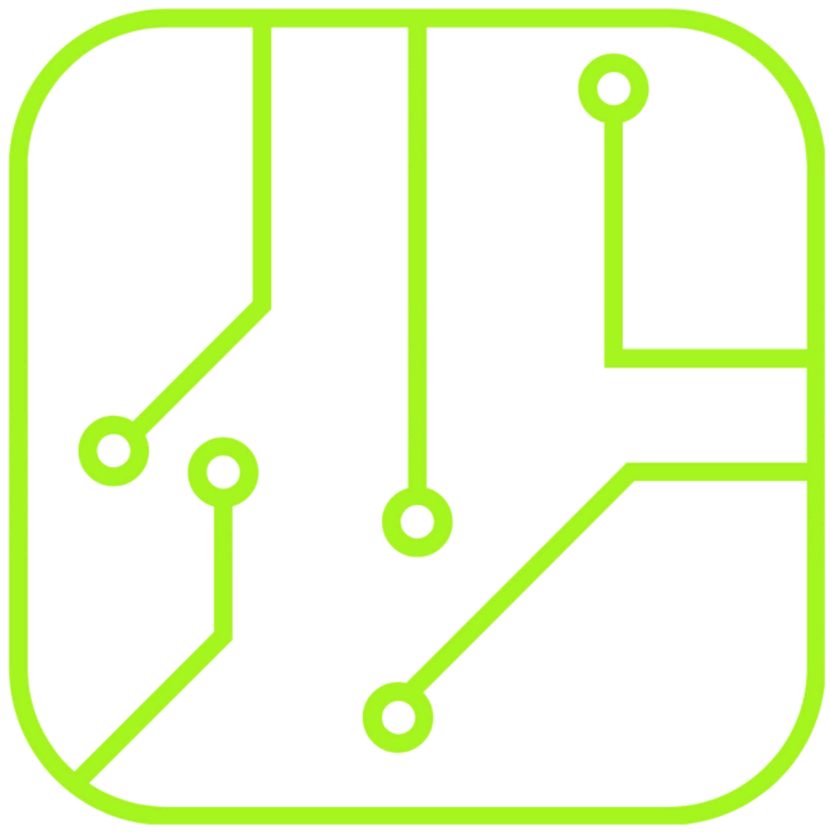


High thermal stability and resistance to thermal runaway.

Our innovative pack design, rigorous testing, analysis, and characterization, as well as cutting-edge BMS technology, provide the highest level of safety.

Our battery is the most economical and high-quality option on the market, providing outstanding value for money.

Tesson Energy uses a highly controlled and cutting-edge technology to make high-performance lithium battery packs. Each step is intended to promote safety, dependability, and long cycle life.



Thank You

Thank you for considering our advanced energy solutions. Together, we can power a sustainable future.

contact@tessonenergy.com

www.tessonenergy.com