



LION BATTERIES

LITHIUM IRON PHOSPHATE BATTERY

FEATURES Lithium Iron Phosphate (LiFePO₄).
The Safest Lithium Technology.
Integrated Battery Management System(BMS).

PERFORMANCE Long Cycle Life >2000cycles@80%DOD.
High Density,High Discharge Current,High Temperature Range.
Low Weight,Free Maintenance.
Fast Charging.
Environment Friendly.



LFP36-100Ah

BATTERY DATA SHEET

Electrical Parameters

Nominal Voltage	38.4V
Rated Capacity	100 Ah
Energy	3840 Wh
Resistance	≤35mΩ
Efficiency	0.99
Cycle Life	>2000cycles @1C,80% DOD
Self Discharge	2% per Month
Max. Modules in Series/Parallel	12S/13P

Mechanical Parameters

Dimension(LxWxH)	520x269x220 mm
	20.47x 10.59x 8.66"
Weight	32kg
Terminal Type	M8
Battery Housing	ABS
Housing Protection	IP65
Cell Type-Chemistry	LiFePO ₄ Cell
SOC Display(Optional)	/

Discharge Parameters

Continuous Discharge Current	100A
Pulse Discharge Current	150A (<10S)
Recommended Volt. Disconnect	30V
BMS Discharge Cut-off Voltage	26.4V
Reconnect Voltage	32.4V
Short Circuit Protection	100-3000us

Charge Parameters

Charge Method	CC-CV
Charge Voltage	42.6~43.8V
Recommended Float Voltage	40.5V~41.4V
Recommended Charge Current	50A
Maximum Charge Current	100A
BMS Charge Cut-off Voltage	15.2V

Temperature Parameters

Discharge Temperature	-20 °C to 60 °C
Charge Temperature	0 °C to 55 °C
Storage Temperature	-20 °C to 60 °C
BMS High Temperature Cut-off	65 °C



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