

LiFePO₄

LIX 100 BS

Lithium iron phosphate battery (LiFePO₄)



GENERAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	100 Ah / 1280 Wh
Resistance	≤ 30 mΩ
Efficiency	99 %
Self Discharge	≤ 1.5 % / month
Maximum Batteries in Series	4
Maximum Batteries in Parallel	4
Cycle Life	≥3000 at 90% DoD

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100 A (30 min)
Pulse Discharge Current	≤ 350 A (3 s)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	10 V ± 0.16 V
BMS Reconnect Voltage (Discharging)	11,2 V ± 0.16 V

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20 °C to 60 °C
Charge Temperature*	0 °C to 45 °C
Recommended Storage Temperature	10 °C to 35 °C
BMS Discharge Cut-Off Temperature	70 °C

GENERAL INFORMATION

Dimensions (L x W x H)	(307 x 168 x 226 mm) ± 2 mm
Weight	12.5 kg ± 0.5 kg
Case Material	ABS
Enclosure Protection	IP 65
Cell Type - Chemistry	Prismatic LiFePO ₄
Terminal	M8
Product Code	502-50102

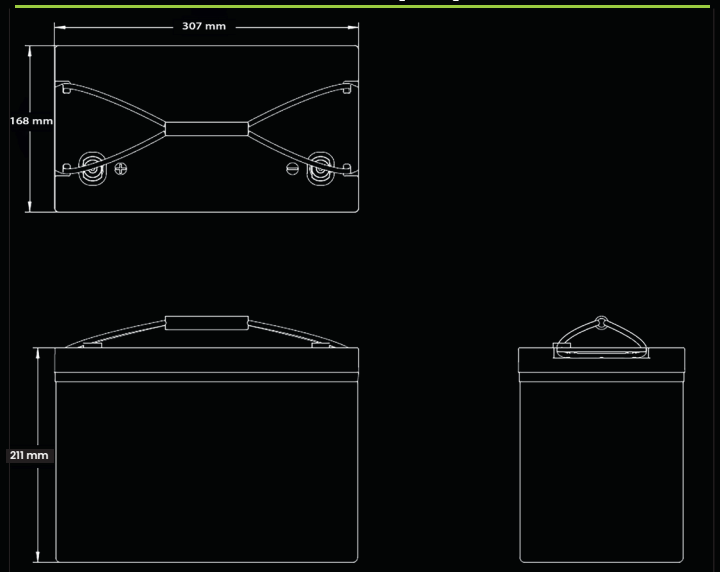
CHARGE SPECIFICATIONS

Recommended Charge Current	< 60 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.6 V ± 0.1 V
Float Charge Voltage (Standby use)	13.8 ± 0.2 V
BMS Charge Voltage Cut-Off	15.0 V ± 0.12 V
BMS Reconnect Voltage (Charging)	14.4 V ± 0.16 V

COMPLIANCE SPECIFICATIONS

Certifications	CE (battery), UL1642 and IEC62133 (cells)
Shipping Classification	UN 3480, class 9

DIMENSIONAL SPECIFICATIONS [mm]



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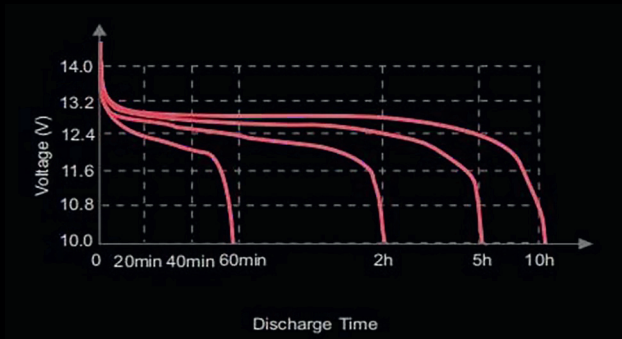
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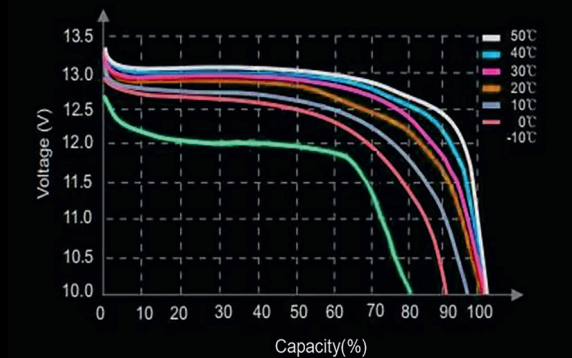
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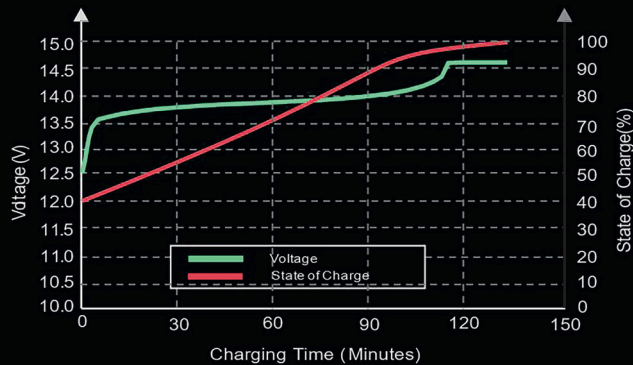
DIFFERENT RATE DISCHARGE CURVE (25 °C)



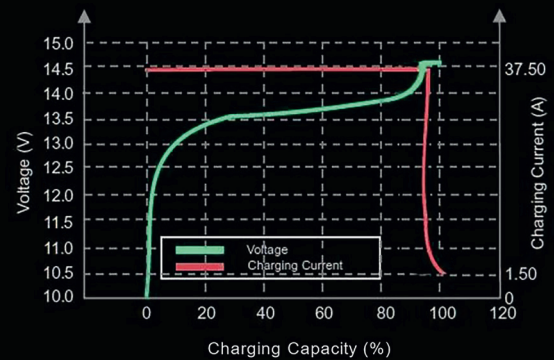
DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5 C)



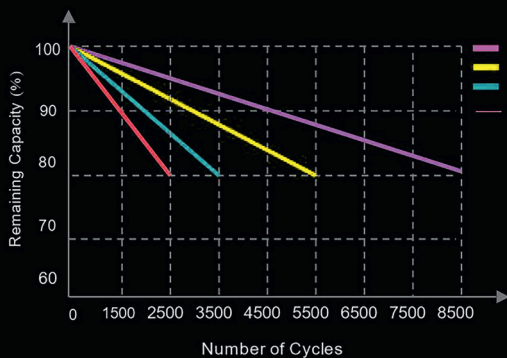
STATE OF CHARGE CURVE(0.5C 25 °C)



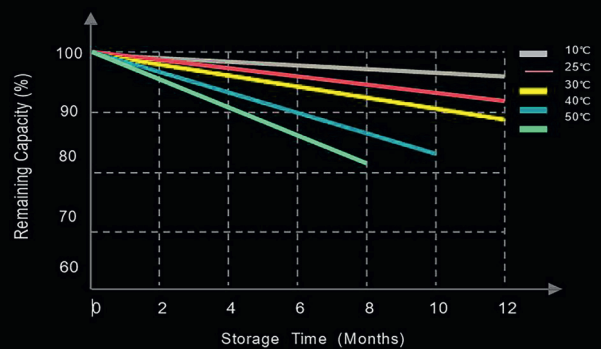
CHARGING CHARACTERISTICS (0.5C, 25 °C)



CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



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