

LiFePO₄

LIX 100-D LT

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 bei 90% DoD

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100 A (30 min)
Pulse Discharge Current	≤ 300 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 bis 60 °C
Charge Temperature	- 20 °C bis 45 °C
Recommended Storage Temperature	10 °C bis 35 °C
BMS Discharge Cut-Off Temperature	70 °C

GENERAL INFORMATION

Dimensions (L x W x H)	(355 x 176 x 190 mm) ± 3 mm
Weight	11,6 kg ± 0,5 kg
Case Material	ABS
Enclosure Protection	IP 65
Cell Type - Chemistry	Prismatic LiFePO ₄
Terminal	M10
Product Code	502-50100

CHARGE SPECIFICATIONS

Recommended Charge Current	60 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14,6 V ± 0,5 V
Float Charge Voltage (Standby use)	13,8 V ± 0,2 V
BMS Charge Voltage Cut-Off	15,0 V ± 0,12 V
BMS Reconnect Voltage (Charging)	14,4 V ± 0,16 V

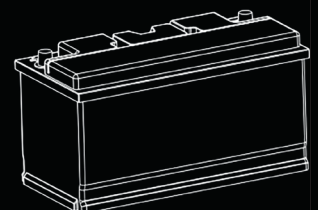
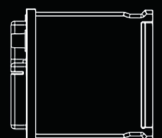
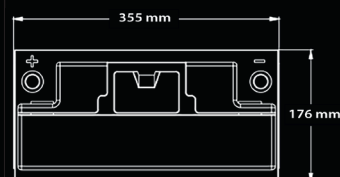
HEATING ELEMENT SPECIFICATIONS

Heating Temperature Range	- 20 °C bis 5 °C
Heating Power	8 A
Heating Condition	when charging batterie and temperature is below -2 °C

COMPLIANCE SPECIFICATIONS

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

DIMENSIONAL SPECIFICATIONS [mm]



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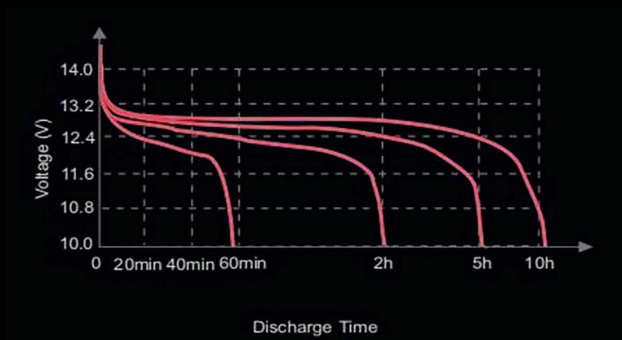
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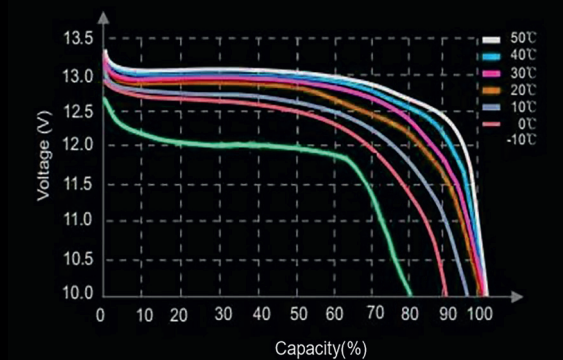
Lithium iron phosphate battery (LiFePO₄)



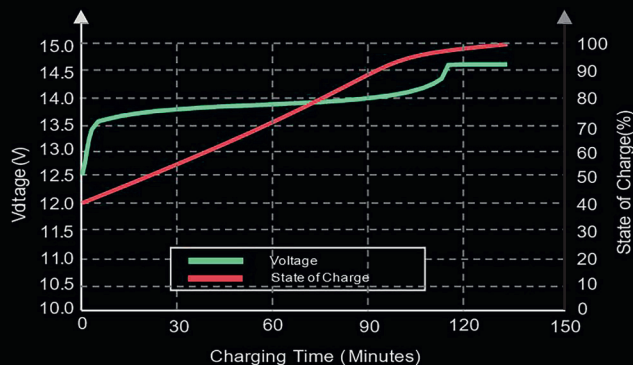
DIFFERENT RATE DISCHARGE CURVE (25 °C)



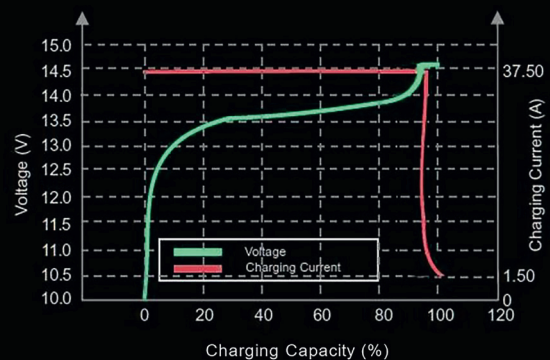
DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5 C)



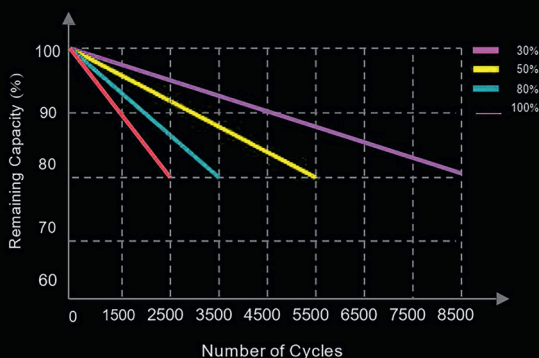
STATE OF CHARGE CURVE(0.5C 25 °C)



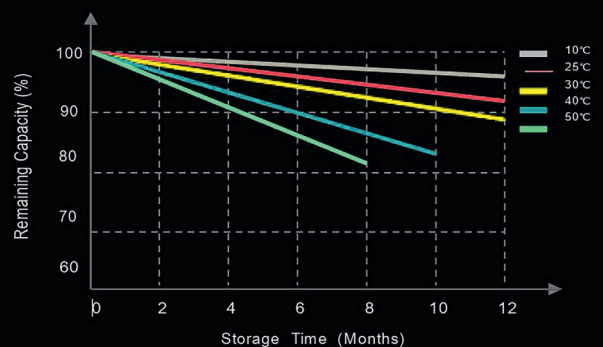
CHARGING CHARACTERISTICS (0.5C, 25 °C)



CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



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