

LiFePO₄

LIX 80-D HC

Lithium iron phosphate battery (LiFePO₄)



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GENERAL SPECIFICATIONS

Nominal Voltage	12,8 V
Nominal Capacity	80 Ah / 1024 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, 25 °C)
Pulse Discharge Current	≤ 500 A (3 s, 25 °C)
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	0 °C bis 45 °C
Recommended Storage Temperature	15 °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 ± 0,1 kg
Case Material	ABS
Enclosure Protection	IP 65
Cell Type - Chemistry	Prismatic, LiFePO ₄
Terminal	M8
Product Code	502-50080

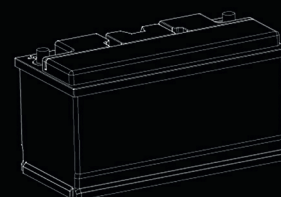
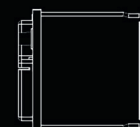
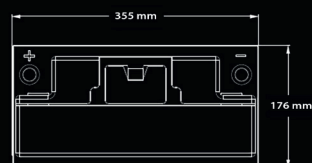
CHARGE SPECIFICATIONS

Recommended Charge Current	< 40 A
Maximum Charge Current	120 A
Recommended Charge Voltage	14,5 V ± 0,2 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

COMPLIANCE SPECIFICATIONS

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

DIMENSIONAL SPECIFICATIONS [mm]



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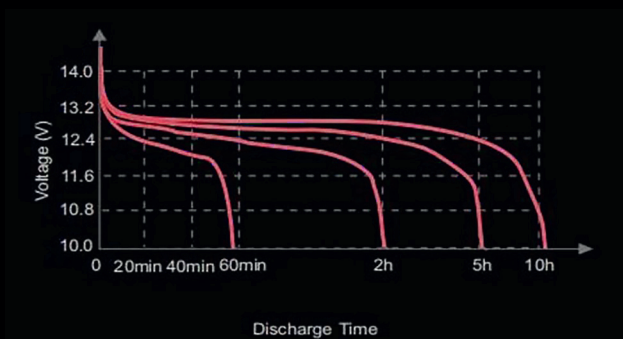
Lithium iron phosphate battery (LiFePO₄)



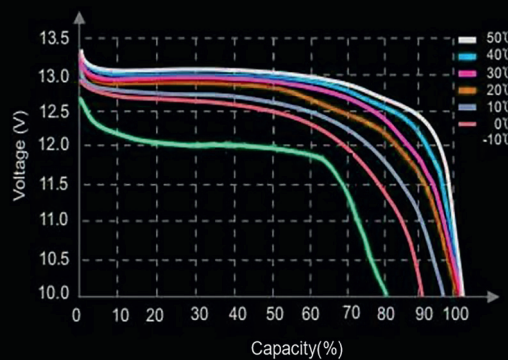
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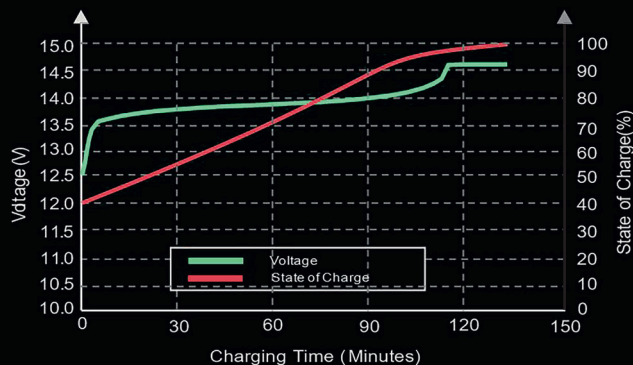
DIFFERENT RATE DISCHARGE CURVE (25 °C)



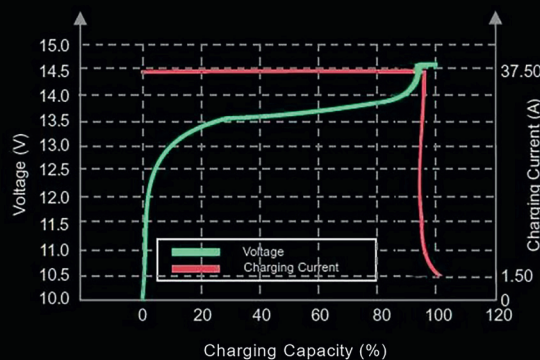
DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5 C)



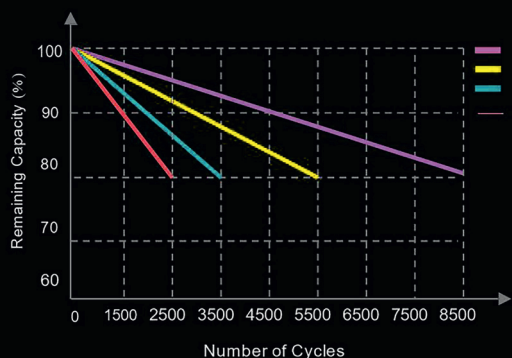
STATE OF CHARGE CURVE(0.5C 25 °C)



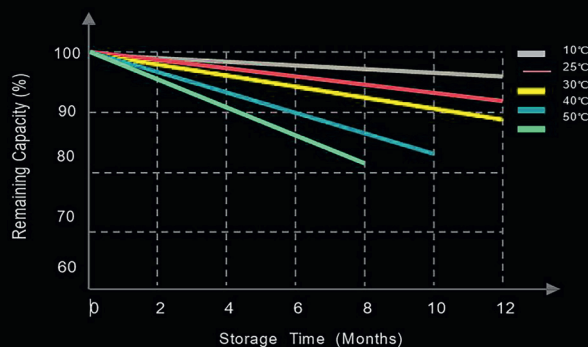
CHARGING CHARACTERISTICS (0.5C, 25 °C)



CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



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