

LiFePO4 LIX 300 LT

Lithium iron phosphate battery (LiFePO4)



GENERAL SPECIFICATIONS

Nominal Voltage	12,8 V
Nominal Capacity	300 Ah / 3840 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

Max. Dauerentladestrom	200 A (30 min)
Max. Puls-Entladestrom	≤ 350 A (3 s)
Empfohlene Last-Abschaltswelle	11 V
BMS Abschaltswelle (Entladung)	10 V ± 0,16 V
BMS Wiedereinschaltung (Entladung)	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)	(520 x 268 x 220 mm) ± 3 mm
Weight	38,0 kg ± 1,0 kg
Case Material	ABS
Enclosure Protection	IP 65
Cell Type - Chemistry	Prismatic, LiFePO4
Terminal	M10
Product Code	502-50300

CHARGE SPECIFICATIONS

Recommended Charge Current	< 150 A
Maximum Charge Current	150 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

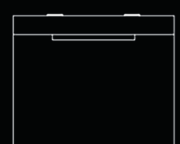
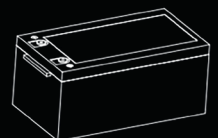
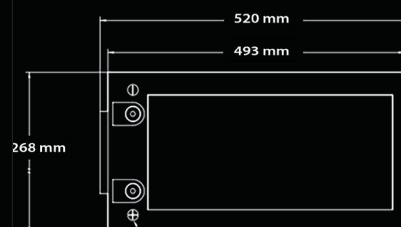
HEATING ELEMENT SPECIFICATIONS

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]



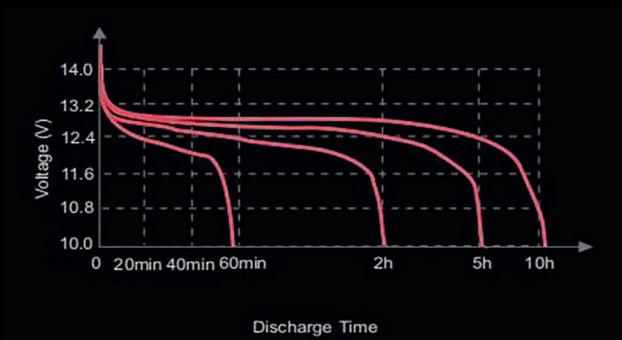
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LiFePO₄ LIX 300 LT

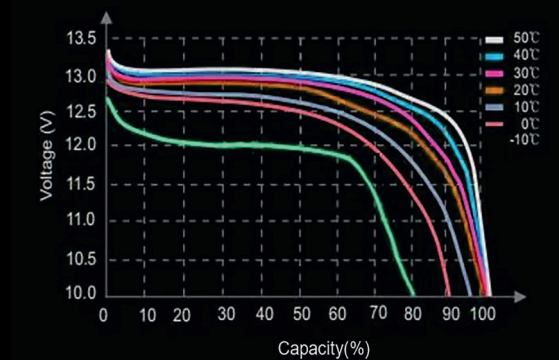
Lithium iron phosphate battery (LiFePO₄)



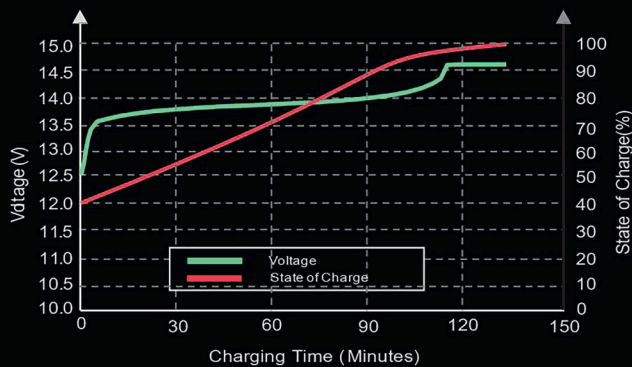
DIFFERENT RATE DISCHARGE CURVE (25 °C)



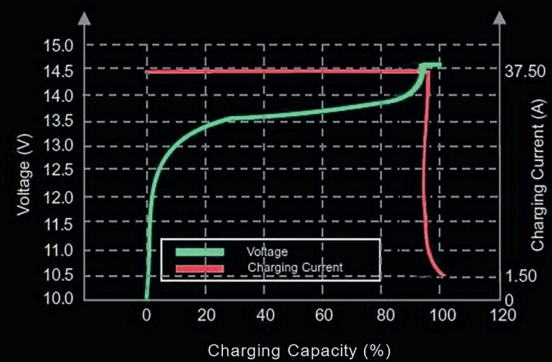
DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5 C)



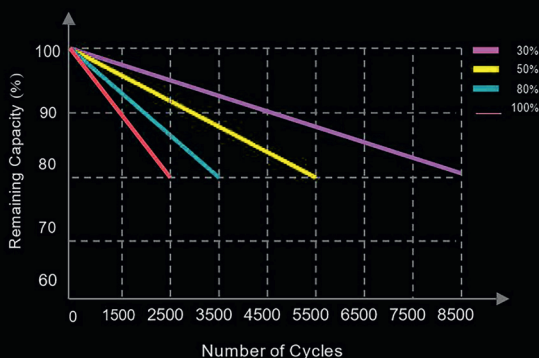
STATE OF CHARGE CURVE (0.5C 25 °C)



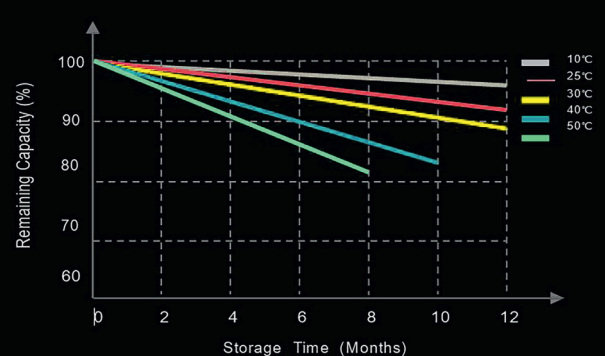
CHARGING CHARACTERISTICS (0.5C, 25 °C)



CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



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