

# LiFePO4 LIX 100 BS

Lithium-Eisenphosphat-Batterien (LiFePO4)



## Spezifikationen

Nennspannung	12,8 V
Nennkapazität	100 Ah / 1280 Wh
Innenwiderstand	≤ 20 mΩ
Effizienz	99 %
Selbstentladung	≤ 1,5 % / Monat
Max. Batterieanzahl in Reihenverschaltung	4
Max. Batterieanzahl in Parallelverschaltung	4
Zykluslebensdauer	≥3500 bei 90 % DoD

## Entladung

Max. Dauerentladestrom	100 A (30 min)
Max. Puls-Entladestrom	≤ 360 A (3 s)
Empfohlene Last-Abschaltswelle	10 V
BMS Abschaltswelle (Entladung)	10 V ± 0,2 V
BMS Wiedereinschaltung (Entladung)	11,2 V ± 0,4 V

## Zulässige Temperaturbereiche

Entladung	- 20 °C bis 60 °C
Ladung	0 °C bis 45 °C
Lagerung	15 °C bis 35 °C
BMS Cut-Off-Temperatur	70 °C

## Allgemeine Informationen

Maße (L x W x H)	(353 x 175 x 190 mm) ± 2 mm
Gewicht	11,5 kg ± 0,5 kg
Material	ABS
Schutzklasse	IP 65
Zelltyp / Chemie	Prismatisch, LiFePO4
Anschluss	Polklemmen
Artikelnummer	502-52100

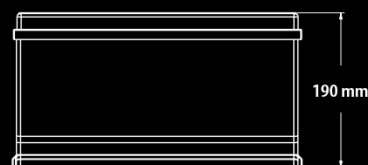
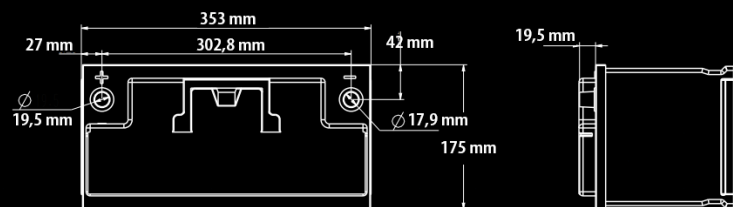
## Ladung

Empfohlener Ladestrom	80 A
Maximaler Ladestrom	100 A
Empfohlene Ladespannung	14,6 V ± 0,2 V
Float Ladespannung (Lagerung)	13,8 V ± 0,2 V
BMS Abschaltswelle (Ladung)	15,0 V ± 0,2 V
BMS Wiedereinschaltung (Ladung)	14,4 V ± 0,2 V

## Compliance

Zertifikate	CE (Batterie), UL1642 and IEC62133 (Zellen)
Versandklasse	UN 3480, class 9

## Abmaße [mm]



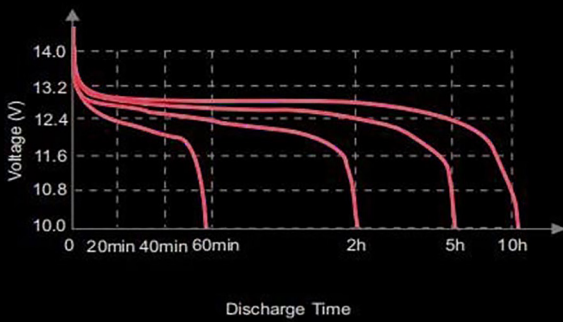
Technische Änderungen, Irrtümer und Druckfehler vorbehalten Stand 07.2023

# LiFePO4 LIX 100 BS

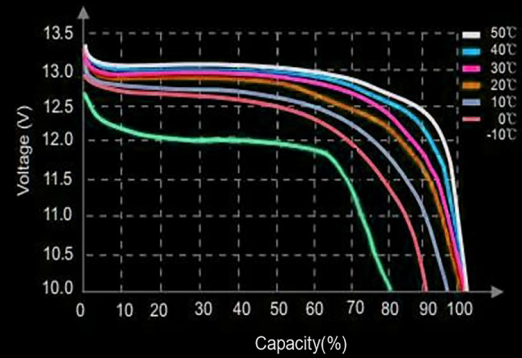
Lithium-Eisenphosphat-Batterien (LiFePO4)



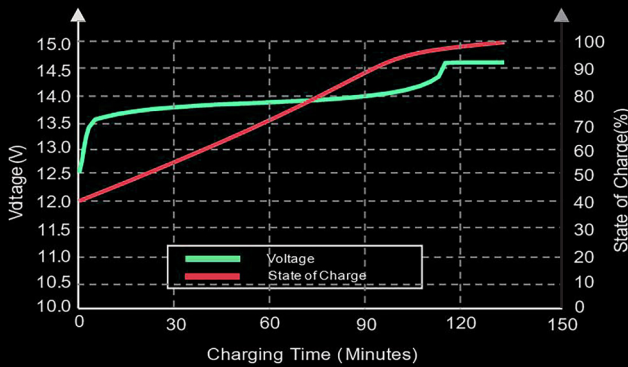
## VERSCHIEDENE ENTLADEGESCHWINDIGKEITEN (25 °C)



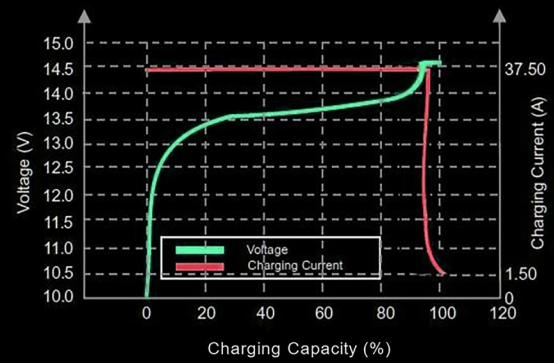
## ENTLADEKURVE VERSCHIEDENE TEMPERATUREN (0.5 C)



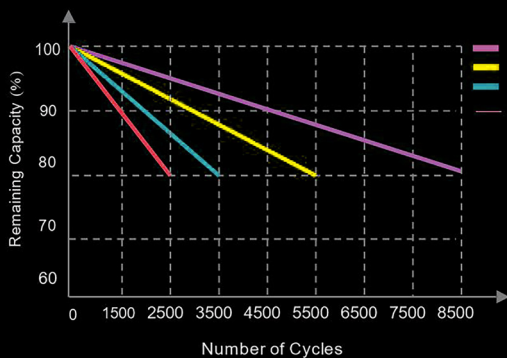
## ZUSAMMENHANG LADEZUSTAND UND SPANNUNG (0.5C 25 °C)



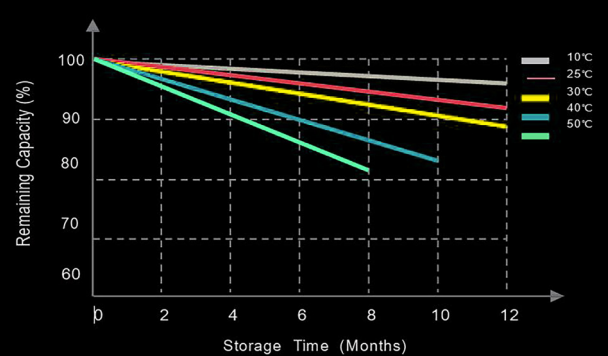
## LADECHARAKTERISTIK (0.5C, 25 °C)



## ZYKLENFESTIGKEIT IN RELATION ENTLADETIEFE



## SELBSTENTLADUNG BEI VERSCHIEDENEN TEMPERATUREN



Technische Änderungen, Irrtümer und Druckfehler vorbehalten Stand 07.2023

# LiFePO<sub>4</sub>

## LIX 100 BS

Lithium iron phosphate battery (LiFePO<sub>4</sub>)



### GENERAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	100 Ah / 1280 Wh
Resistance	≤ 20 mΩ
Efficiency	99 %
Self Discharge	≤ 1.5 % / month
Maximum Batteries in Series	4
Maximum Batteries in Parallel	4
Cycle Life	≥3500 at 90 % DoD

### DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100 A (30 min)
Pulse Discharge Current	≤ 360 A (3 s)
Recommended Low Voltage Disconnect	10 V
BMS Discharge Voltage Cut-Off	10 V ± 0.2 V
BMS Reconnect Voltage (Discharging)	11.2 V ± 0.4 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)	(353 x 175 x 190 mm) ± 2 mm
Weight	11.5 kg ± 0.5 kg
Case Material	ABS
Enclosure Protection	IP 65
Cell Type - Chemistry	Prismatic LiFePO <sub>4</sub>
Terminal	Pole terminals
Product Code	502-52100

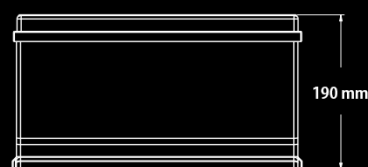
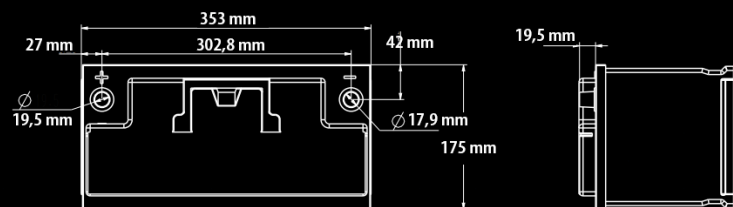
### CHARGE SPECIFICATIONS

Recommended Charge Current	80 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.6 V ± 0.2 V
Float Charge Voltage (Standby use)	13.8 ± 0.2 V
BMS Charge Voltage Cut-Off	15.0 V ± 0.2 V
BMS Reconnect Voltage (Charging)	14.4 V ± 0.2 V

### COMPLIANCE SPECIFICATIONS

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

### DIMENSIONAL SPECIFICATIONS [mm]



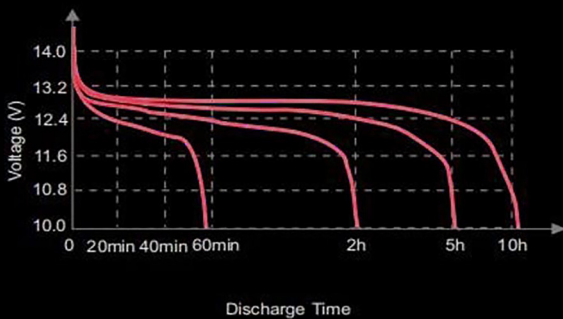
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# LiFePO4 LIX 100 BS

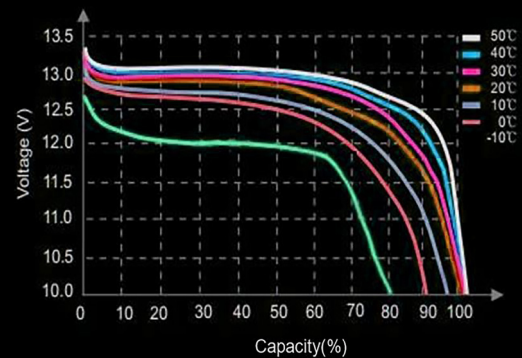
Lithium iron phosphate battery (LiFePO4)



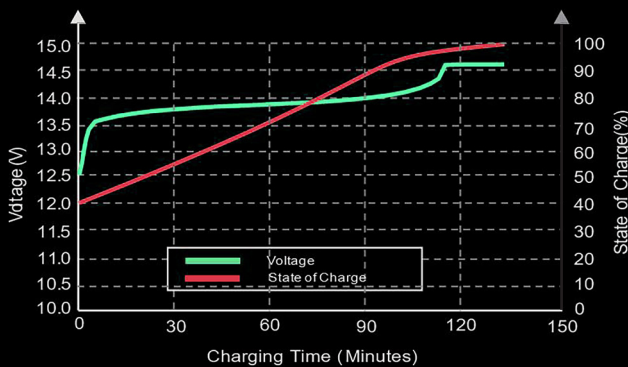
## DIFFERENT RATE DISCHARGE CURVE (25 °C)



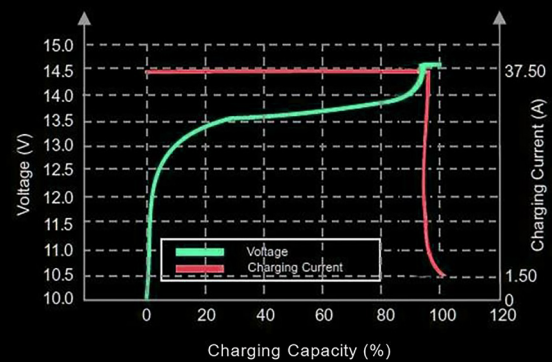
## DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5 C)



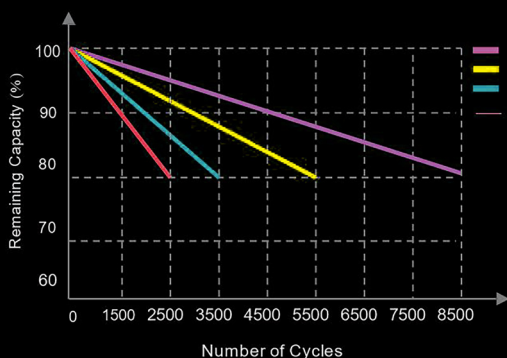
## STATE OF CHARGE CURVE (0.5C 25 °C)



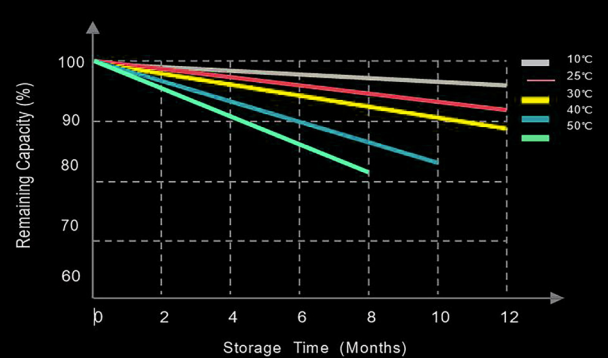
## CHARGING CHARACTERISTICS (0.5C, 25 °C)



## CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



## DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



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