

LiFePO4 LIX 200 BS

Lithium-Eisenphosphat-Batterien (LiFePO4)



Spezifikationen

Nennspannung	12,8 V
Nennkapazität	200 Ah / 2560 Wh
Innenwiderstand	≤ 30 mΩ
Effizienz	99 %
Selbstentladung	≤ 1,5 % / Monat
Max. Batterieanzahl in Reihenverschaltung	4
Max. Batterieanzahl in Parallelverschaltung	4
Zyklenlebensdauer	≥3500 bei 90 % DoD

Entladung

Max. Dauerentladestrom	200 A (30 min)
Max. Puls-Entladestrom	≤ 400 A (3 s)
Empfohlene Last-Abschaltswelle	10 V
BMS Abschaltswelle (Entladung)	10 V ± 0,2 V
BMS Wiedereinschaltung (Entladung)	11,2 V ± 0,2 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)	(483 x 170 x 241 mm) ± 3 mm
Gewicht	23,6 kg ± 0,5 kg
Material	ABS
Schutzklasse	IP 65
Zelltyp / Chemie	Prismatisch, LiFePO4
Anschluss	M8
Artikelnummer	502-52200

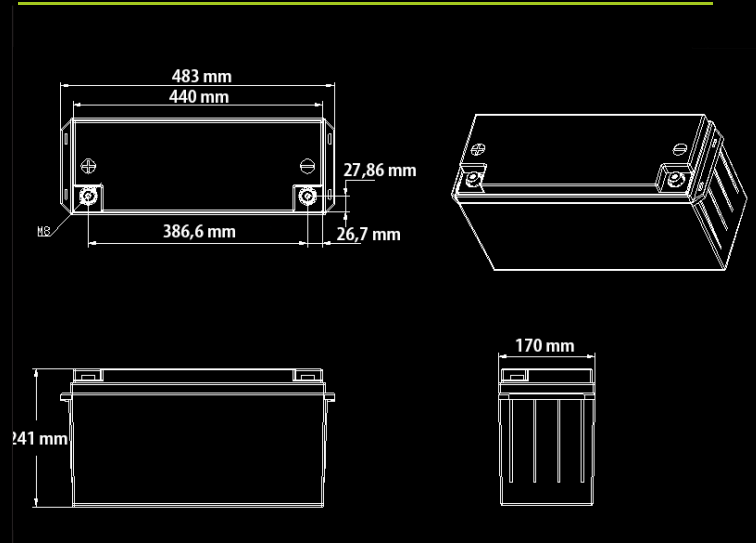
Ladung

Empfohlener Ladestrom	100 A
Maximaler Ladestrom	200 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 09.2023

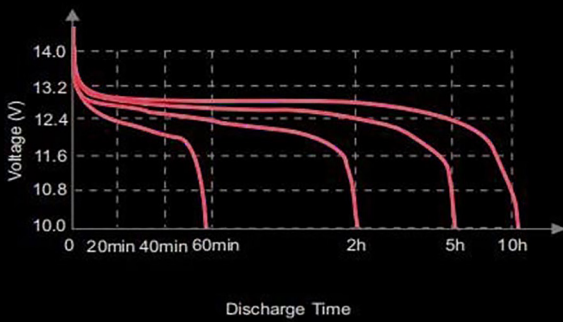
LiFePO4

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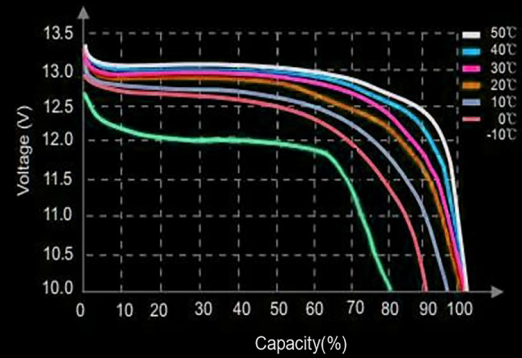
Lithium-Eisenphosphat-Batterien (LiFePO4)



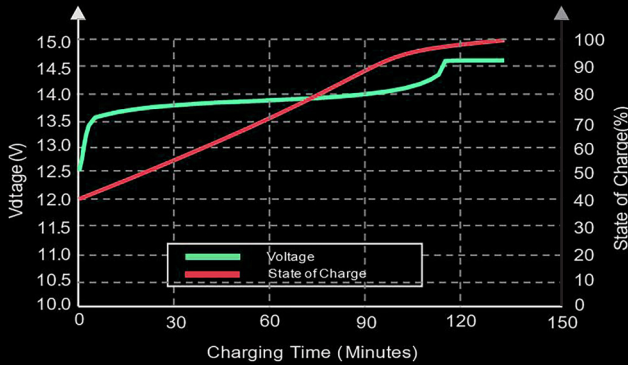
VERSCHIEDENE ENTLADEGESCHWINDIGKEITEN (25 °C)



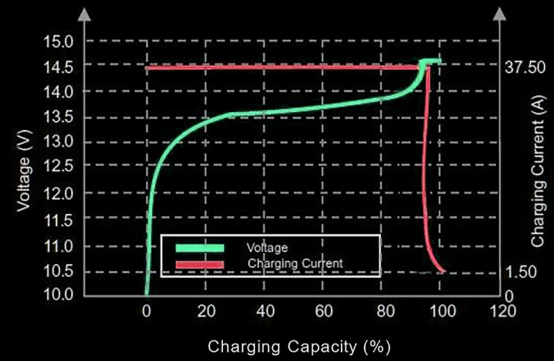
ENTLADEKURVE VERSCHIEDENE TEMPERATUREN (0.5 C)



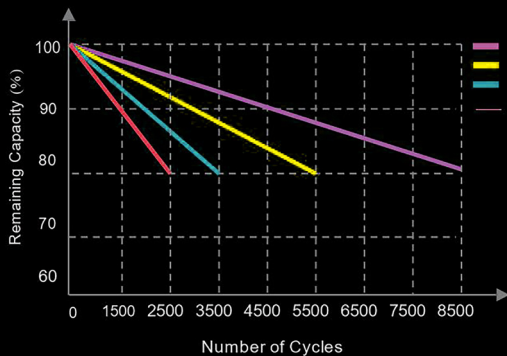
ZUSAMMENHANG LADEZUSTAND UND SPANNUNG (0.5C 25 °C)



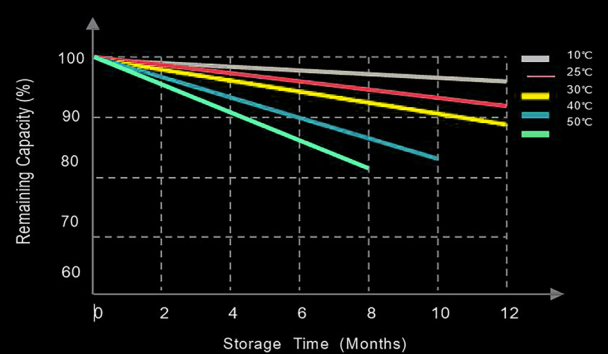
LADECHARAKTERISTIK (0.5C, 25 °C)



ZYKLENFESTIGKEIT IN RELATION ENTLADETIEFE



SELBSTENTLADUNG BEI VERSCHIEDENEN TEMPERATUREN



Technische Änderungen, Irrtümer und Druckfehler vorbehalten Stand 09.2023

LiFePO4

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Lithium iron phosphate battery (LiFePO4)



GENERAL SPECIFICATIONS

Nominal Voltage	12,8 V
Nominal Capacity	200 Ah / 2560 Wh
Resistance	≤ 30 mΩ
Efficiency	99 %
Self Discharge	≤ 1.5 % / Monat
Maximum Batteries in Series	4
Maximum Batteries in Parallel	4
Cycle Life	≥3500 bei 90 % DoD

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	200 A (30 min)
Pulse Discharge Current	≤ 400 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 ± 0.2 V

TEMPERATURE SPECIFICATIONS

Discharge Temperature	- 20 °C bis 60 °C
Charge Temperature	0 °C bis 45 °C
Recommended Storage Temperature °C	15 °C bis 35 °C
BMS Discharge Cut-Off Temperature	70 °C

GENERAL INFORMATION

Dimensions (L x W x H)	(483 x 170 x 241 mm) ± 3 mm
Weight	23,6 kg ± 0.5 kg
Case Material	ABS
Enclosure Protection	IP 65
Cell Type - Chemistry	Prismatic, LiFePO4
Terminal	M8
Product Code	502-52200

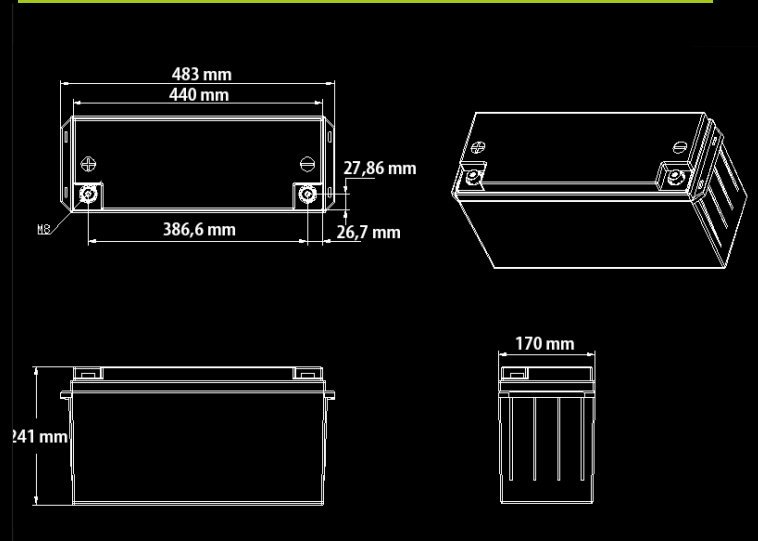
CHARGE SPECIFICATIONS

Recommended Charge Current	100 A
Maximum Charge Current	200 A
Recommended Charge Voltage	14.6 V ± 0.2 V
Float Charge Voltage (Standby use)	13.8 V ± 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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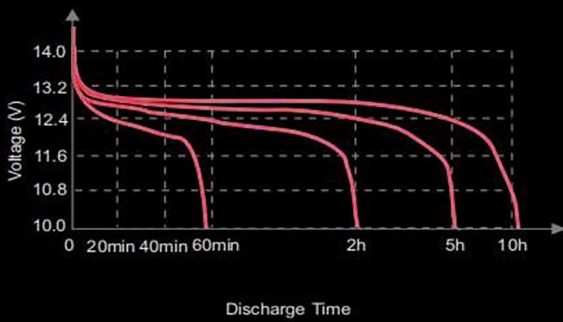
LiFePO4

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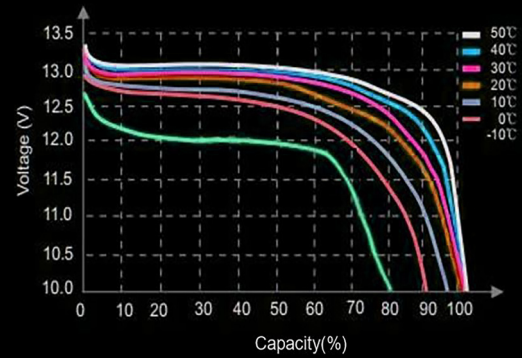
Lithium iron phosphate battery (LiFePO4)



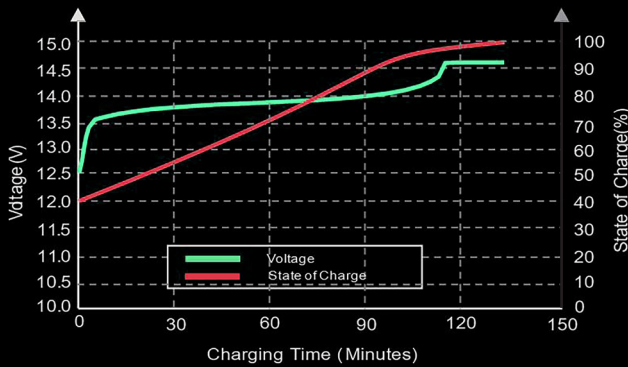
DIFFERENT RATE DISCHARGE CURVE (25 °C)



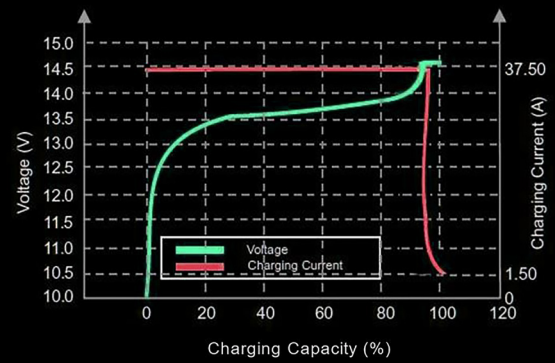
DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5 C)



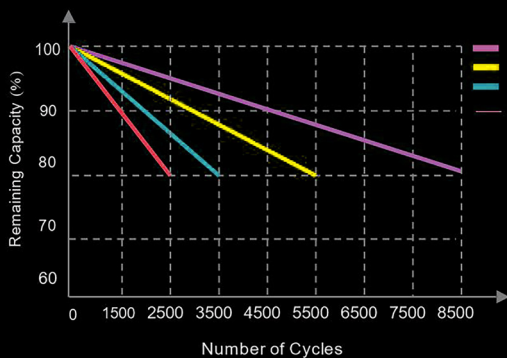
STATE OF CHARGE CURVE (0.5C 25 °C)



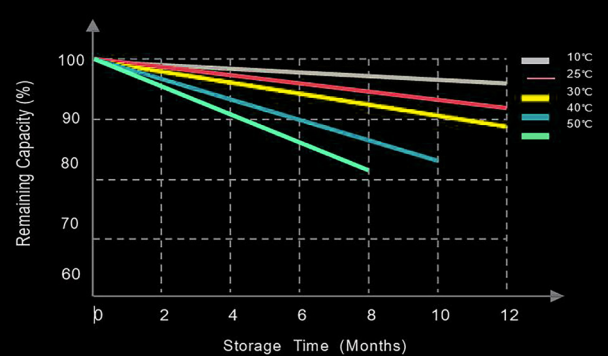
CHARGING CHARACTERISTICS (0.5C, 25 °C)



CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



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