

# LiFePO4

## NovaCore 100 Ah

Lithium-Eisenphosphat-Batterien (LiFePO4)



### SPEZIFIKATIONEN

Nennspannung	12,8 V
Nennkapazität	100 Ah / 1280 Wh
Innenwiderstand	≤ 20 mΩ
Effizienz	99 %
Selbstentladung	≤ 2,5 % / Monat
Max. Batterieanzahl in Reihenverschaltung	4
Max. Batterieanzahl in Parallelverschaltung	4
Zyklenlebensdauer	≥6000 bei 80 % DoD

### ENTLADUNG

Max. Dauerentladestrom	150 A
Spitzenentladestrom	200 A (5 min.)
BMS-Entladeabschaltstrom	500 A ± 10 A (50 ~ 200 ms)
Empfohlene Last-Abschaltspannung	11.0 V
BMS Abschaltspannung (Entladung)	10.8 V
BMS Wiedereinschaltung (Entladung)	11.6 V
Kurzschlusschutz	200 ~500 μs

### ZULÄSSIGE TEMPERATURBEREICHE

Entladung	-30 °C bis +60 °C
Ladung	-30 °C bis +45 °C
Lagerung	-5 °C bis +35 °C
BMS Cut-Off-Temperatur	+65 °C

### ALLGEMEINE INFORMATIONEN

Maße (L x W x H)	(356 x 175 x 189 mm) ± 2 mm
Gewicht	11.6 kg ± 0.1 kg
Active cell balancer	5 A (max.)
Zellheizung	75 W / 5 A (max.)
Empfohlener Nachladezeitpunkt (Lagerung)	Nach 3 Monaten
Material	ABS
Schutzklasse	IP 65
Zelltyp / Chemie	Prismatisch, LiFePO4
Anschluss	DIN Batteriepol
Produktgarantie	7 Jahre
Artikelnummer	502-55004

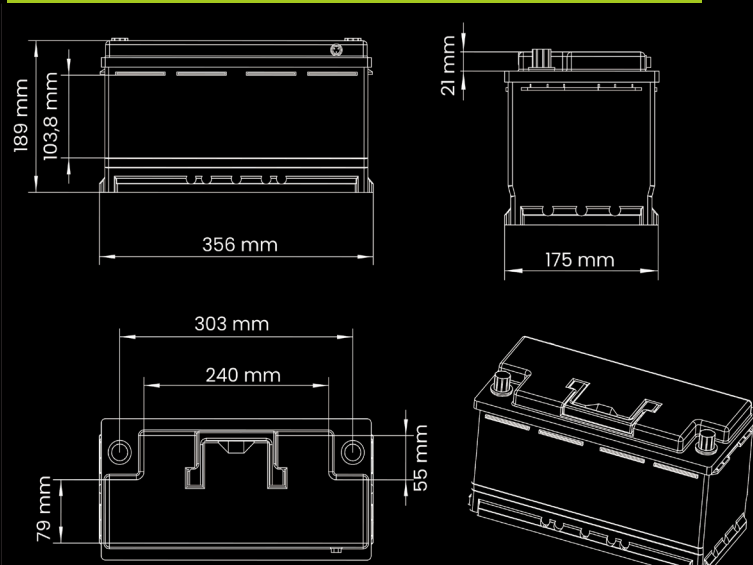
### LADUNG

Empfohlener Ladestrom	50 A
Maximaler Ladestrom	100 A
Empfohlene Ladespannung	14.6 V
Float Ladespannung (Lagerung)	13.8 V
BMS Abschaltspannung (Ladung)	15.0 V
BMS Wiedereinschaltungsspannung (Ladung)	14.2 V

### RICHTLINIEN

Zertifikate	CE, UN38.3, ECE R10.6 (Batterie) MSDS UL1642, IEC62133 (Zellen)
Versandklasse	UN 3480, class 9

### Abmaße [mm]



Technische Änderungen, Irrtümer und Druckfehler vorbehalten Stand 02.2024  
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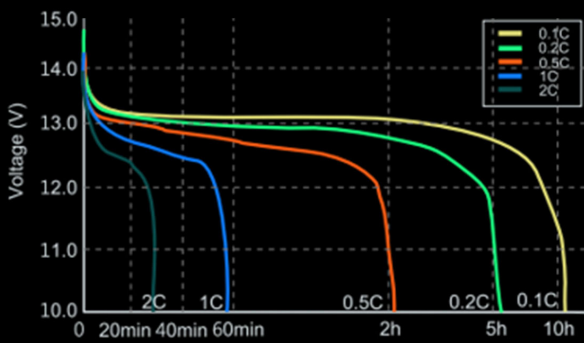
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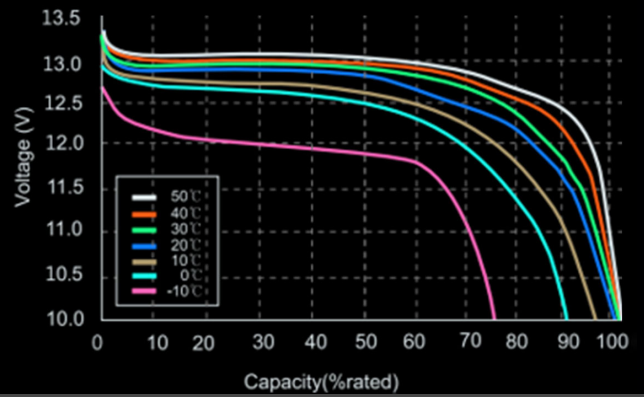
Lithium-Eisenphosphat-Batterien (LiFePO4)



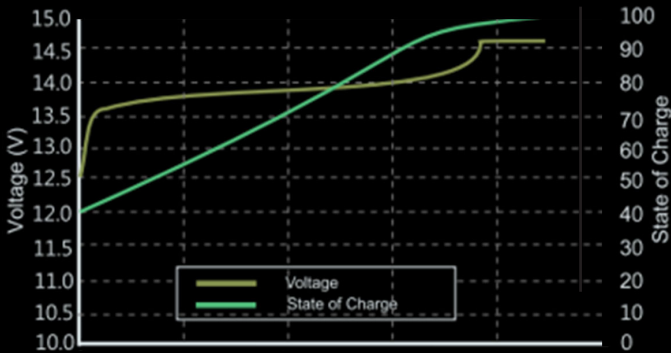
### VERSCHIEDENE ENTLADEGESCHWINDIGKEITEN (25 °C)



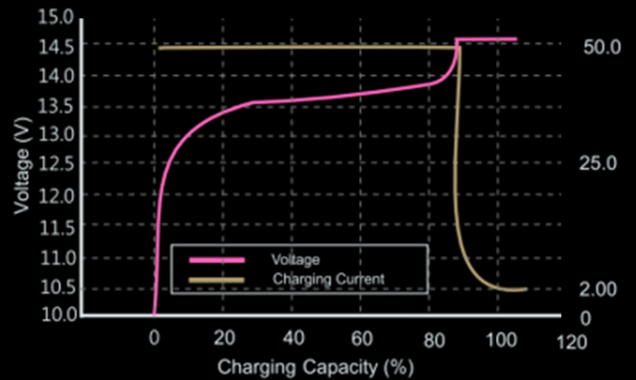
### ENTLADEKURVE VERSCHIEDENE TEMPERATUREN (0.5 C)



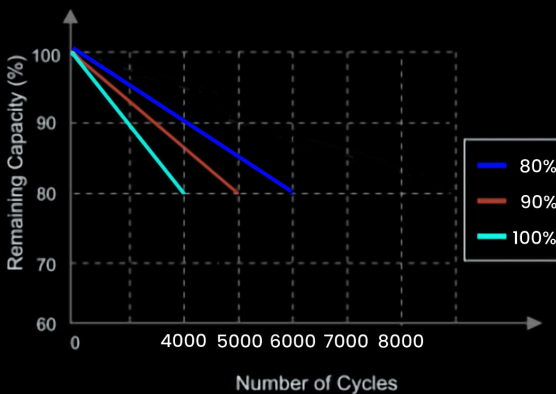
### ZUSAMMENHANG LADEZUSTAND UND SPANNUNG (0.5C 25 °C)



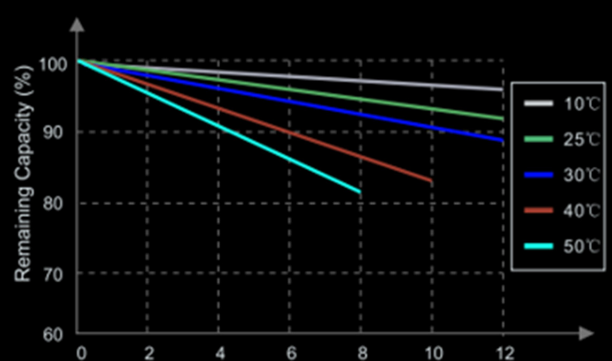
### LADECHARAKTERISTIK (0.5C, 25 °C)



### ZYKLENFESTIGKEIT IN RELATION ENTLADETIEFE



### SELBSTENTLADUNG BEI VERSCHIEDENEN TEMPERATUREN



Technische Änderungen, Irrtümer und Druckfehler vorbehalten Stand 02.2024  
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# LiFePO<sub>4</sub>

## NovaCore 100 Ah

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	≤ 2.5 % / Month
Maximum Batteries in Series	4
Maximum Batteries in Parallel	4
Cycle Life	≥6000 bei 80 % DoD

### DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	150 A
Peak Discharge Current	200 A (5 min.)
BMS Discharge Cut-Off Current	500 A ± 10 A (50 ~ 200 ms)
Recommended Low Voltage Disconnect	11.0 V
BMS Discharge Voltage Cut-Off	10.8 V
BMS Reconnect Voltage (Discharging)	11.6 V
Short Circuit Protection	200 ~500 μs

### TEMPERATURE SPECIFICATIONS

Discharge Temperature	-30 °C bis +60 °C
Charge Temperature	-30 °C bis +45 °C
Recommended Storage Temperature	-5 °C bis +35 °C
BMS Discharge Cut-Off Temperature	+65 °C

### GENERAL INFORMATION

Dimensions (L x W x H)	(356 x 175 x 189 mm) ± 2 mm
Weight	11.6 kg ± 0.1 kg
Active cell balancer	5 A (max.)
Cell heater	75 W / 5 A (max.)
Recommended recharging time (storage)	After 3 Month
Case Material	ABS
Enclosure Protection	IP 65
Cell Type - Chemistry	Prismatic, LiFePO <sub>4</sub>
Terminal	DIN battery pole
Product guarantee	7 Years
Product Code	502-55004

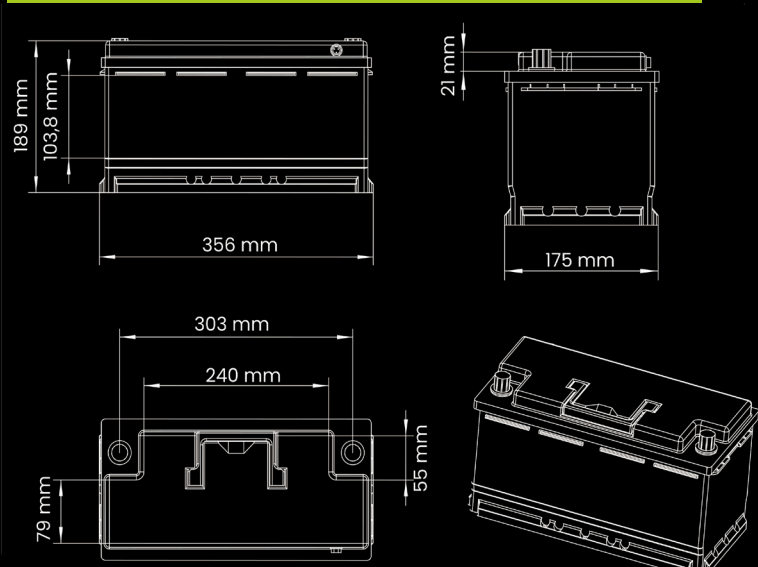
### CHARGE SPECIFICATIONS

Recommended Charge Current	50 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.6 V
Float Charge Voltage (Standby use)	13.8 V
BMS Charge Voltage Cut-Off	15.0 V
BMS Reconnect Voltage (Charging)	14.2 V

### GUIDELINES

Certifications	CE, UN38.3, ECE R10.6 (Battery) MSDS UL1642, IEC62133 (Cells)
Shipping Classification	UN 3480, class 9

### DIMENSIONAL SPECIFICATIONS [mm]



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# LiFePO<sub>4</sub>

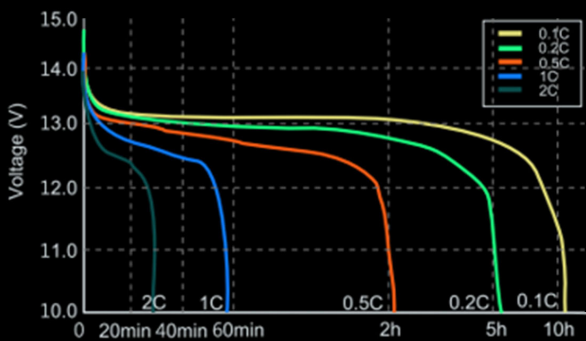


## NovaCore 100 Ah

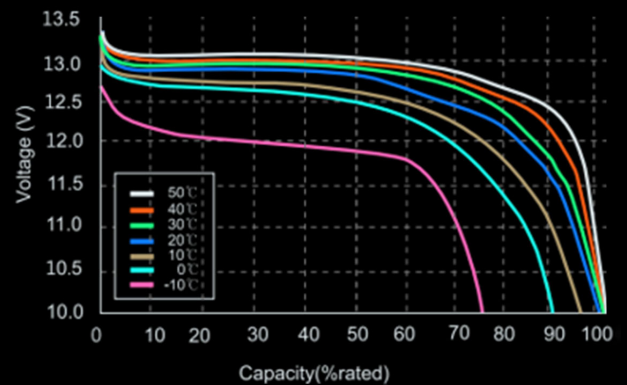
Lithium iron phosphate battery (LiFePO<sub>4</sub>)



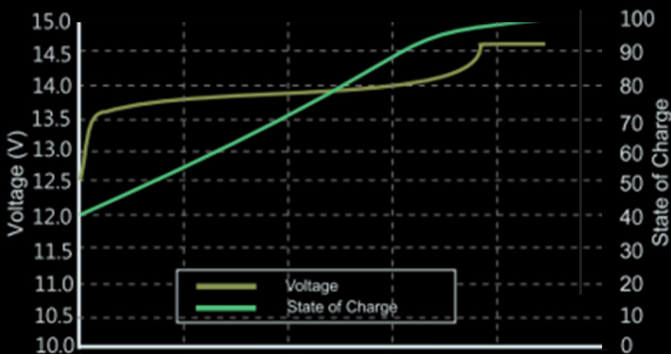
### DIFFERENT RATE DISCHARGE CURVE (25 °C)



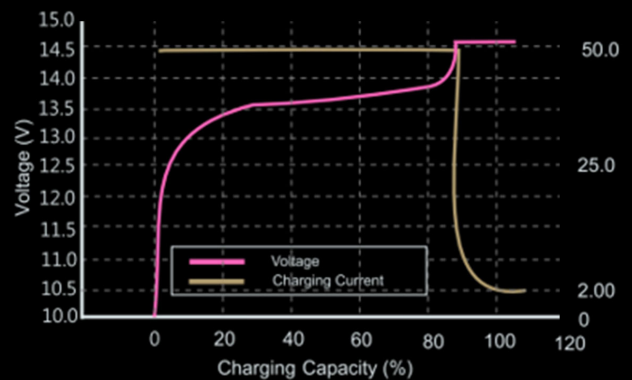
### DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5 C)



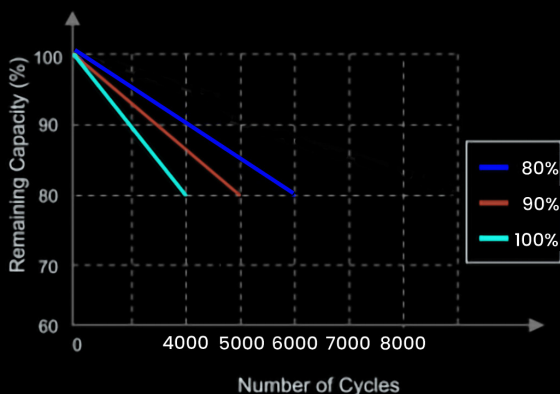
### STATE OF CHARGE CURVE (0.5C 25 °C)



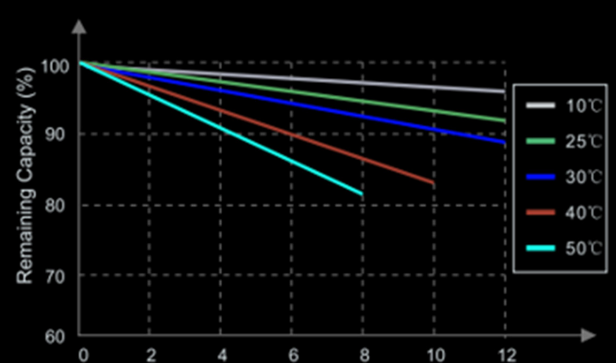
### CHARGING CHARACTERISTICS (0.5C, 25 °C)



### CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



### DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



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