

**Type number:**  
LFP 12-80 BL

**Article number:**  
04054LFP80

**EAN/GTIN-Nr.:**  
9005753101906



Monitoring & Diagnosis



Lightweight construction  
Compact design



High discharge performance  
Reliable & stable



Integrated heating function  
for winter operation



IP65 protection  
Dust & water jet protection



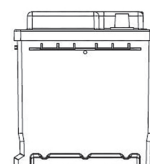
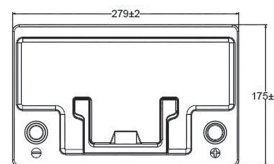
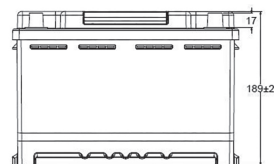
### Electrical Values

Nominal Voltage	12,8 V	Peak Discharge Current Limit	210 A (2~3 s)
Nominal Capacity (K5)	80 Ah @0.2C +25 °C (± 3 %)	Self-Discharge	≤ 4 % per month
Nominal Discharge Current	40 A	Cycle Life	> 3.000 cycles (80 % DoD)
Nominal Charge Current	40 A	Internal Resistance	< 15 mΩ
Max. Continuous Discharge Current	80 A	Shipping SOC	47-50 %
Max. Continuous Charge Current	80 A	Cell Technology	LiFePO <sub>4</sub> (LFP)

### Dimensions & Weight

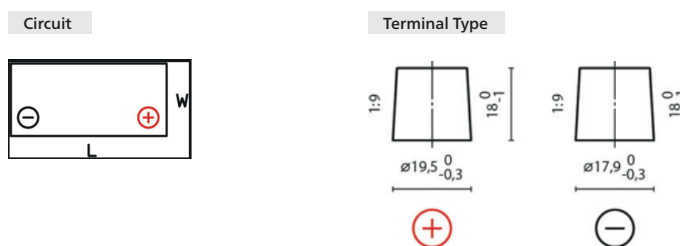
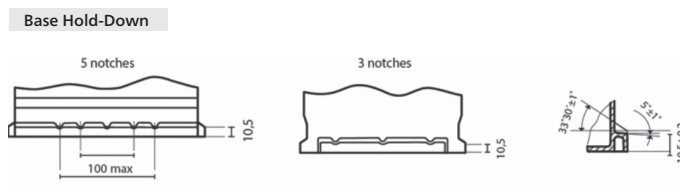
Case Size	H6 / L3
Maximum Length	279 mm
Breite max.	175 mm
Case Height	189 mm
Total Height	189 mm
Weight	9,2 kg (± 5 %)

Dimensions



### Design & Configuration

Base Hold-Down	B13
Circuit	Layout 0
Terminal Type	1 (round terminal)
Protection Class	IP65
Units per Pallet	96
Load Carrier-ID	Euro pallet
Units per Layer	16



### Technical Values for Discharge

Nominal Discharge Current	40 A
Max. Continuous Discharge Current	80 A

Peak Discharge Current Limit	210 A (2~3 s)
Discharge Cut-Off Voltage	10 V (2,5 V per cell)

### Technical Values for Charging

Nominal Charge Current	40 A
Max. Continuous Charge Current	80 A

Recommended Charge Voltage	13,6~13,8 V
Charge Cut-Off Voltage	14,6 V (3,65 V per cell)

### Temperature values

Temperature range Discharge	-20 to +60 °C
Temperature range Charge	-20 to +60 °C
Temperature range Storage	-5 to +35 °C

### Bluetooth & Wiring

Bluetooth App	yes
Battery Heating	yes (< +15 °C start)
Wiring	- max. 4 batteries in series - max. 4 batteries in parallel

### Certifications

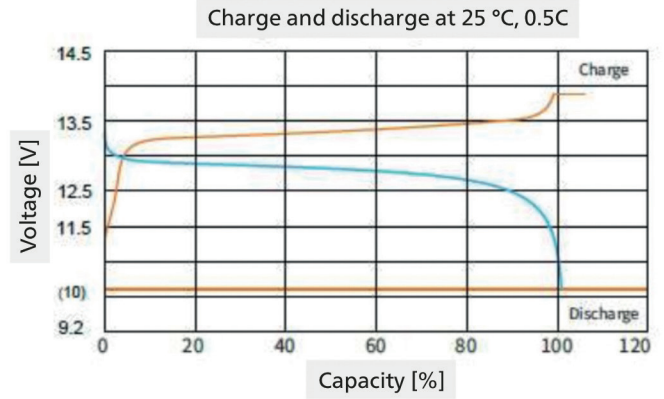
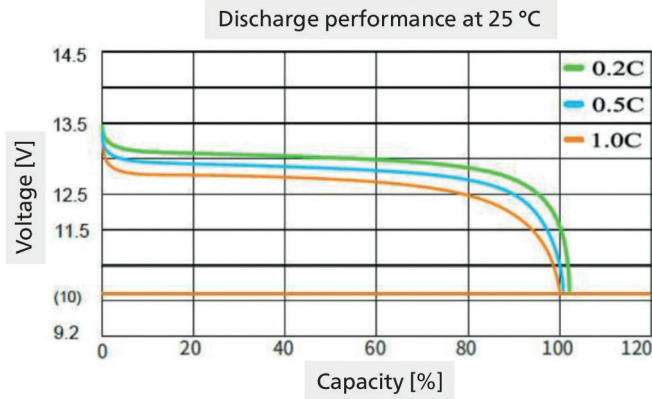
CE, UN38.3, RoHs
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### Shipping classification

UN 3480, CLASS 9
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### Characteristic curves



### BMS Parameter Settings (Battery-Management-System)

Number of Cell Strings	4	Balancing Start Voltage	3,3 ± 0,03 V
Cell Overvoltage Protection	3,65 V	Differenz-Einschaltspannung	15 mV
Cell Undervoltage Protection	2,5 V	Balancing Current	200 ± 50 mA
Battery Overvoltage Protection	14,6 V	Max. Continuous Charge Current	80 A
Battery Undervoltage Protection	10 V	Max. Continuous Discharge Current	80 A
High-temperature protection during charging	+60 ± 3 °C	Charge Overcurrent Protection	90 ± 5 A
Low temperature protection during charging	+2 ± 3 °C	1st Discharge Overcurrent Protection	90 ± 5 A
High-temperature protection during discharge	+60 ± 3 °C	2nd Discharge Overcurrent Protection	210 ± 55 A
Low-temperature protection during discharge	-20 ± 3 °C	Short Circuit Protection Current	1100 ± 200 A

### Sicherheitshinweise

Diese Sicherheitshinweise dienen dem Schutz des Anwenders und einem sicheren Betrieb des Geräts. Bitte beachten Sie die folgenden Punkte, um Risiken wie Verletzungen, elektrischem Schlag, Brand oder andere Gefahren zu vermeiden:

- Berühren Sie keine offenliegenden oder ungeschützten Anschlüsse.
- Trennen Sie das Ladegerät stets vom Stromnetz, bevor Batterieanschlüsse verbunden oder gelöst werden.
- Lesen Sie vor dem Anschluss an die Stromversorgung die Installationshinweise in der Bedienungsanleitung sorgfältig durch.
- Austretender Elektrolyt kann Haut und Augen schädigen. Vermeiden Sie daher jeglichen Kontakt.

<sup>1)</sup> Alle angeführten Werte beziehen sich auf Raumtemperatur von +25 °C.

<sup>2)</sup> Empfehlung mit externem, spannungsgeregeltem Ladegerät. Achtung: Temperaturkompensation bei Abweichung!

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