

Type number:
LFP 12-100 BL

Article number:
04054LFP100

EAN/GTIN-Nr.:
9005753101869



Monitoring & Diagnosis



Lightweight construction
Compact design



High discharge performance
Reliable & stable



Integrated heating function
for winter operation



IP65 protection
Dust & water jet protection



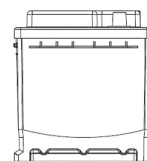
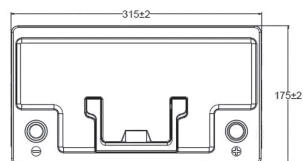
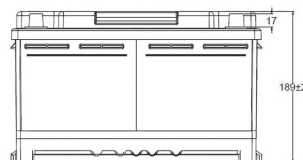
Electrical Values

Nominal Voltage	12,8 V	Peak Discharge Current Limit	330 A (2~3 s)
Nominal Capacity (K5)	100 Ah @0.2C +25 °C (± 3 %)	Self-Discharge	≤ 4 % per month
Nominal Discharge Current	50 A	Cycle Life	> 3.000 cycles (80 % DoD)
Nominal Charge Current	50 A	Internal Resistance	< 15 mΩ
Max. Continuous Discharge Current	100 A	Shipping SOC	47-50 %
Max. Continuous Charge Current	100 A	Cell Technology	LiFePO ₄ (LFP)

Dimensions & Weight

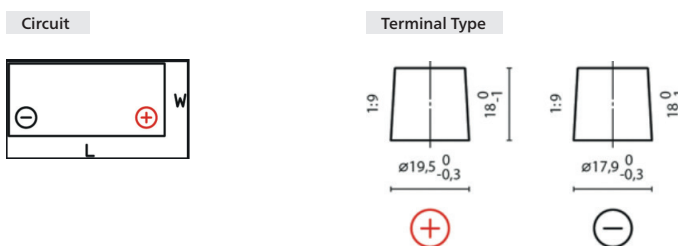
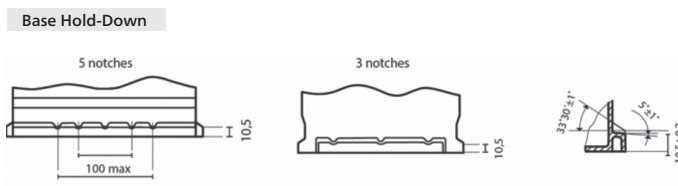
Case Size	H7 / L4
Maximum Length	315 mm
Breite max.	175 mm
Case Height	189 mm
Total Height	189 mm
Weight	10,9 kg (± 5 %)

Dimensions



Design & Configuration

Base Hold-Down	B13
Circuit	0
Terminal Type	1 (round terminal)
Protection Class	IP65
Units per Pallet	72
Load Carrier-ID	Euro pallet
Units per Layer	12



Technical Values for Discharge

Nominal Discharge Current	50 A
Max. Continuous Discharge Current	100 A

Peak Discharge Current Limit	330 A (2~3 s)
Discharge Cut-Off Voltage	10 V (2,5 V per cell)

Technical Values for Charging

Nominal Charge Current	50 A
Max. Continuous Charge Current	100 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

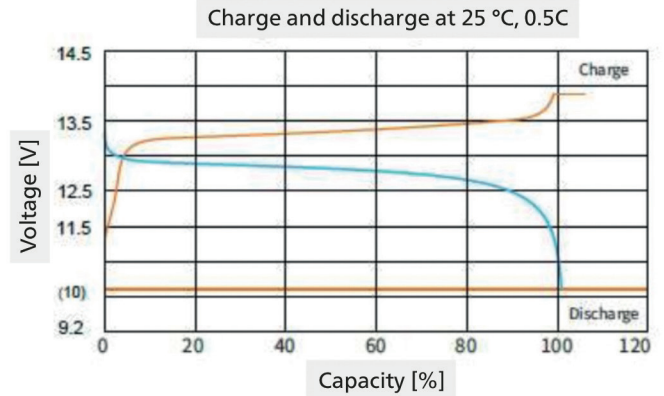
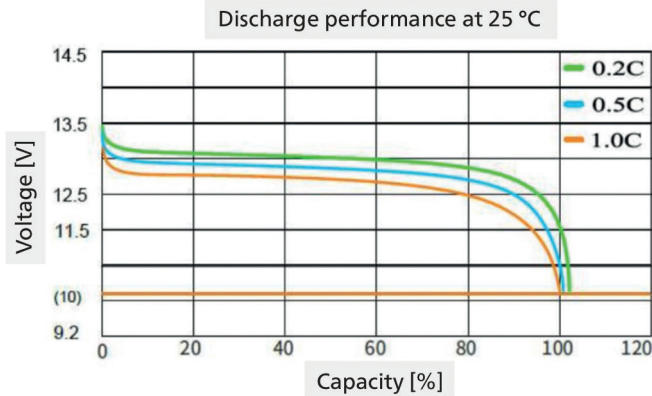
Certifications

CE, UN38.3, RoHs

Shipping classification

UN 3480, CLASS 9

Characteristic curves



BMS Parameter Settings (Battery-Management-System)

Number of Cell Strings	4	Balancing Start Voltage	$3,3 \pm 0,03$ V
Cell Overvoltage Protection	3,65 V	Differential switch-on voltage	15 mV
Cell Undervoltage Protection	2,5 V	Balancing Current	200 ± 50 mA
Battery Overvoltage Protection	14,6 V	Max. Continuous Charge Current	100 A
Battery Undervoltage Protection	10 V	Max. Continuous Discharge Current	100 A
High-temperature protection during charging	$+60 \pm 3$ °C	Charge Overcurrent Protection	110 ± 5 A
Low temperature protection during charging	$+2 \pm 3$ °C	1st Discharge Overcurrent Protection	110 ± 5 A
High-temperature protection during discharge	$+60 \pm 3$ °C	2nd Discharge Overcurrent Protection	330 ± 80 A
Low-temperature protection during discharge	-20 ± 3 °C	Short Circuit Protection Current	1320 ± 300 A

Safety Instructions

These safety instructions are for the user's protection and the safe operation of the device. Please observe the following points to avoid risks such as injury, electric shock, fire, or other hazards:

- Do not touch any exposed or unprotected connections.
- Always disconnect the charger from the mains power supply before connecting or disconnecting any battery connections.
- Before connecting to the power supply, carefully read the installation instructions in the operating manual.
- Leaking electrolyte can damage skin and eyes. Therefore, avoid all contact.

¹⁾ All values given refer to a room temperature of +25 °C.

²⁾ Recommended with an external, voltage-regulated charger. Caution: Temperature compensation is required in case of deviation!