

LC 270 S LT

LiFePO₄ Battery | 12.8 V | 270 Ah | 3456 Wh

Technical Specifications

Nominal Voltage	12,8 V
Nominal Capacity	270 Ah
Capacity @ 25 A	648 min
Energy	3456 Wh
Resistance	≤ 15 mΩ
Self Discharge	< 2 % / month
Standby Consumption	2 to 14 Ah / month
Cell Type	LiFePO ₄
Shipping Class	UN 3480, CLASS 9
Certificates	IP 21, CE, UN38.3, UL1973
ECE Certificate	(E24) 10R06/02*6190*00
Cycles (30 % DoD)	13500
Cycles (50 % DoD)	10000
Cycles (80 % DoD)	6800
Cycles (100 % DoD)	4000

* Battery turned off (On/Off switch)

** Battery turned on (On/Off switch)

Charge Specifications

Rec. Charge Current	135 A
Maximum Charge Current	200 A
Rec. Charge Voltage	14,6 to 14,8 V
BMS Charge Cut-Off	15,6 V
Over-charge release	< 14,4 V
Float charge voltage	> 13,6 V
Max. Batteries in Series	2

Discharge Specifications

Max. Cont. Discharge Current	200 A
Peak Discharge Current	300 ± 30 A (5,5 s ± 1 s)
BMS Discharge Cut-Off (A)	600 A (2 s)
Recommended Low Voltage Disconnect	11,2 V
BMS Discharge Cut-Off (Voltage)	> 10 V
Reconnect Voltage	> 11,2 V (2,8 V / cell)
Short Circuit Protection	200 A to 600 μs

Temperature

Discharge Temperature	-20 to 60 °C
Charge Temperature	-30 to 55 °C
Storage Temperature	-10 to 45 °C
BMS High Temperature Cut-Off	65 °C
Reconnect Temperature	50 °C

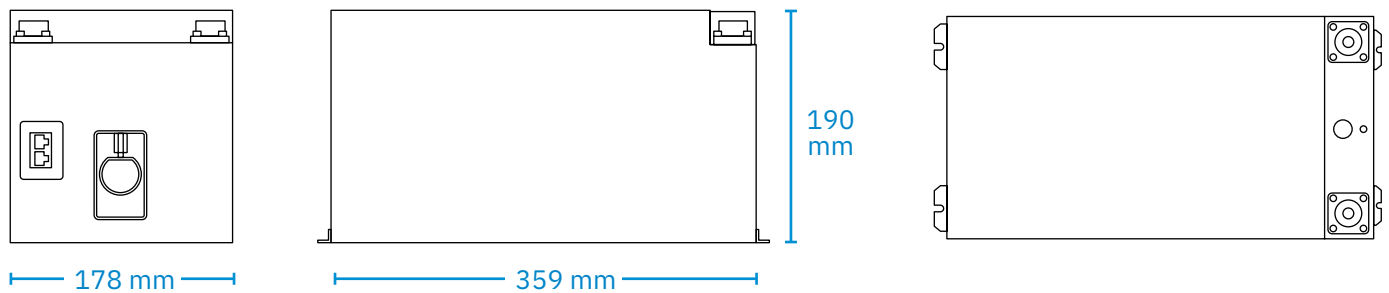
Mechanical Specifications

Dimensions (L×W×H)	359 × 178 × 190 mm
Approx. Weight	27,0 kg
Terminals	M8 (9 to 11 Nm)
Case Material	ABS

Functions & Features

- BMS and various safety functions
- Bluetooth function
- Integrated heating function (120 W)
- CAN-Bus

Dimensions



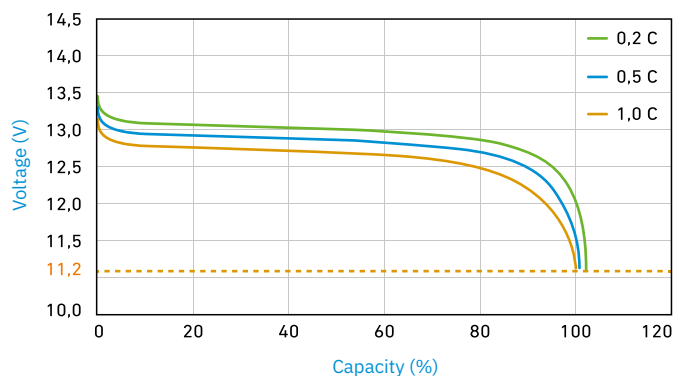
Constant Current Discharge Data (25 °C)

Discharge Time	1,8 h	2 h	3 h	4 h	5 h	10 h	20 h
Discharge Current (until cut off at 10.8 V)	150 A	135 A	90 A	67,5 A	54 A	27 A	13,5 A

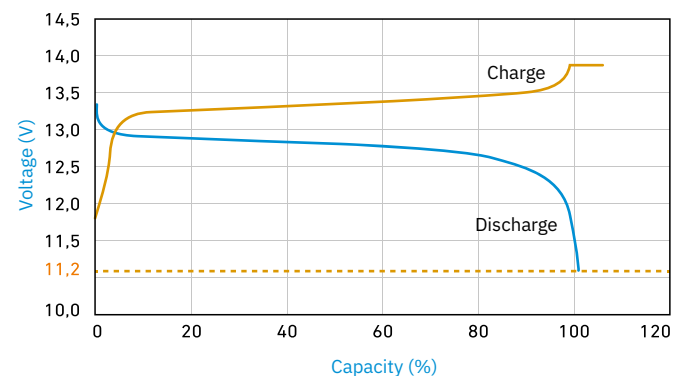
Constant Power Discharge Data (25 °C)

Discharge Time	1,8 h	2 h	3 h	4 h	5 h	10 h	20 h
Discharge Power (until cut off at 10.8 V)	1920 W	1728 W	1152 W	864 W	691,2 W	345,6 W	172,8 W

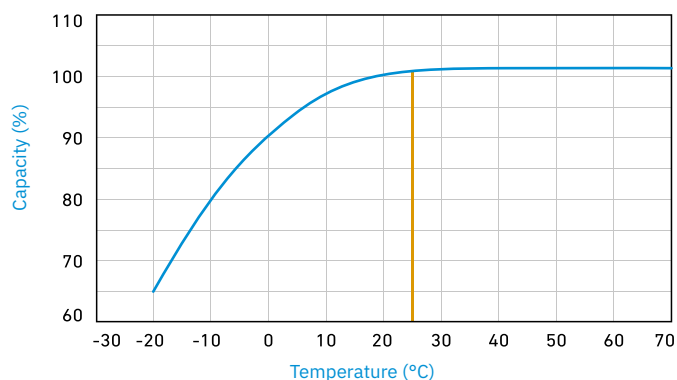
Discharge Performance (25 °C)



Charge and Discharge (0.5 C, 25 °C)



Temperature Effects on Capacity (0.5 C)



Cycle Life with DoD at 25 °C

