

# PB-Li 12-480 LT



high power **battery series**

**LFP** LiFePO<sub>4</sub>  
LITHIUM BATTERY



## ELECTRICAL SPECIFICATIONS

Nominal Voltage	12,8 V
Nominal Capacity	480 Ah
Open Circuit Volt. @ 100%	13,3 V
Energy	6144 Wh
Internal Resistance	< 50 mΩ
Self Discharge [ @ 25°C ]	< 3 % / month
Max. Batteries in Series	SC not possible

## DISCHARGING

Max. cont. Discharge Current	270 A
Peak Discharge Current	500 A (180 s)
BMS Discharge Cut-Off	800 A (3 s)
BMS Cut-Off	10,4 V
Reconnect Voltage	11,6 V
Cycles [ @ 25°C ]	≥ 3000 @ 80% DoD

## TEMPERATURES

Discharge Temperature	-20 to +65°C
Charge Temperature	-30 to +65 °C
Storage Temperature	0 to +40 °C

## COMMUNIKATION

Bluetooth 4.0 with App Android / iOS
Com Port for Firmware Update

## COMPLIANCE

Certificates	CE; UN38.3; UL1642 & IEC62619
Shipping Classification	UN 3480, Klasse 9

## MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)	362 x 354 x 192 mm
Weight	48 kg
Terminal Type	M8
Case Material	metal
Enclosure Protection	IP 56
Cell Type / Chemistry	Prismatic LiFePO <sub>4</sub>
On/off button	snap-in function

## CHARGING

Recomm. Charge Current	50 A
Max. Charge Current	200 A
Recomm. Charge Voltage	14,6 V
BMS Voltage Cut-Off	15 V

## HEATING SYSTEM

LiFePO<sub>4</sub> batteries from the LT series come equipped with an integrated battery heater. This heater is exclusively powered by an external source, such as a charger or generator. As a result, it becomes possible to charge the LiFePO<sub>4</sub> battery even in sub-zero temperatures. When the battery temperature drops below 0°C, the battery heater activates upon connecting an external power source. It warms the battery cells to 5°C, safeguarding them from potential damage. Once the desired temperature is reached, the heater automatically switches off, allowing the battery to be charged normally.

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LiFePO<sub>4</sub>

