TOMMATECH GmbH

GERMAN-based company

PB SERIES
51.2V 100AH LFP BATTERY

BTR-P-PB-51.2V-100AH

Comprehensive Protection
Advanced BMS with active fuse

Superior Performance
Supports Max. 1.2C (6kW or 12 kW) discharge, Gan MOSFETs: 50% loss reduction, high-temp resilient

Optimized Energy Density
Intergrated PACK: reduced line loss, enhanced energy density

Flexible Expansion
Max. 32 units in parallel

Easy Maintenance
Auto-networking, Local monitoring mode for battery, remote monitoring mode for ESS

Reliable Durability
Operates reliably in -20 °C to 55 °C, natural cooling

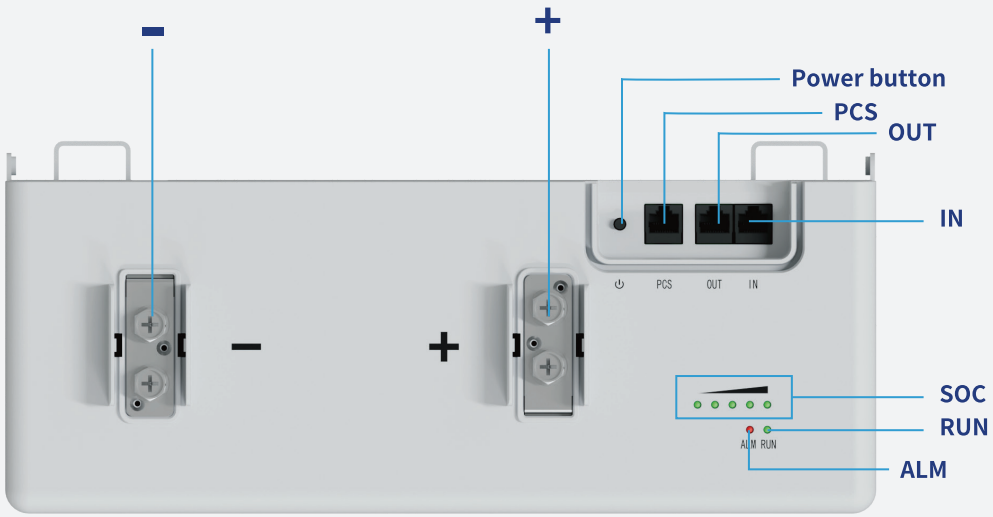
BTR-P-PB-51.2V-100AH

Model		SE-F5	SE-F12
Main Parameters			
Battery Chemistry		$LiFePO_4$	
Capacity [1]		100 Ah	
Scalability		Max. 32 pcs in parallel	
Nominal Voltage		51.2 V	
Operating Voltage		44.8 V ~ 57.6 V	
Nominal Energy [1]		5.12 kWh	
Charge Current [2]	Max. Continuous	50 A	
	Peak	75 A (10 sec)	
Discharge Current [2]	Max. Continuous	120 A	
	Peak	150 A (10 sec)	
Other Parameter			
Recommend Depth of Discharge		80% DoD	
Dimension (W x H x D)		370 x 548 x 140 mm (Without hanging board)	
Weight Approximate		39 kg	
LED Indicator		LED (SOC, working, protecting) & Buzzer	
IP Rating of Enclosure		IP21	
Operating Temperature		Charge : 0~55°C / Discharge : -20~55°C	
Storage Temperature		0~35°C	
Relative Humidity		95% (non-condensing)	
Altitude		≤ 3000m	
Cyle Life		≤ 6000 (25°C±2°C,0.2C/0.2C,80%DOD,70&EOL)	
Installation		Wall-Mounted, Stack-Mounted	
Communication		CAN2.0, RS485, Bluetooth, APP	
Warranty Period [3]		5 years	
Energy Throughput [3]		8 MWh	
Certification		UN38.3, MSDS	

[1] Test conditions : 25°C±2°C, at beginning of life and calibration mode, 0.2C charge & 0.2C discharge, 100% DOD.
[2] The current is affected by temperature and SOC.
[3] Conditions apply, refer to Warranty Letter.

MODEL

↘ BTR-P-PB-51.2V-100AH



- **- :** Battery negative terminal connection position.
- **+:** Battery positive terminal connection position.
- **SOC :** These 5 LEDs are used to display the pack SOC and charge or discharge state.
- **RUN light :** green LED lighting to show the battery has been alarmed.
- **Power button :** Power on or off the control battery.
- **PCS :** Inverter communication terminal : (RJ45port) follow the CAN protocol (baud rate: 500kbps), and RS484 (baud rate: 9600bps), used to output batetry information to the inverter.
- **OUT :** parallel Communication Terminal : (RJ45 port) Connect “IN”Terminal of Next battery, for Communication between multiple parallel batteries.
- **IN :** parallel Communacation Terminal : (RJ45 port) Connect “OUT”Terminal of Previous battery, for Communication between multiple parallel batteries.

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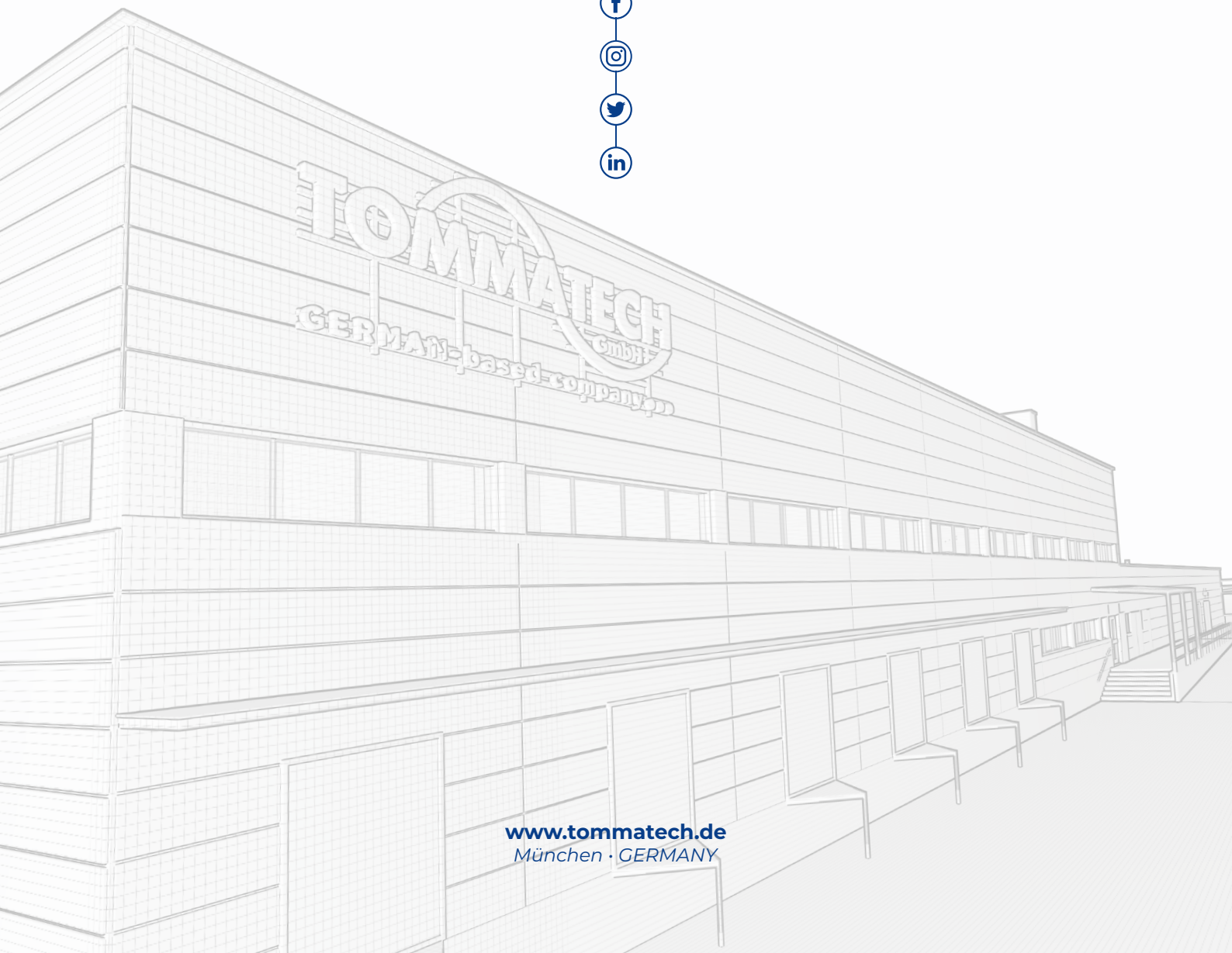

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