

TRUCK BATTERY PACK



2028



Environmental condition

	Parameter	Value	
Ambient temperature	Charging	-20°C ÷ +55°C	
	Discharging	-20°C ÷ +55°C	
	Storage	-30°C ÷ +55°C	
Conditions	Operating/storage humidity (No Condensation)	Up to 95% RH	
	Operating/storage atmospheric pressure	70 ÷ 106.6 kPa	Up to 3000 m

Battery Pack Parameters:

	Parameter	Value	Comments
	Cell chemistry	LMFP	
	Configuration of cells	192S1P	S-serial, P-parallel
Energy	Nominal	103,5	Beginning of Life, C/3, @25°C
	Usable for SOC 5-100%	93.15	Beginning of Life, C/3, @25°C
	Energy density	~167 Wh/kg	Beginning of Life, C/3, @25°C
Capacity	Rated capacity	151 Ah	Beginning of Life, C/3, @25°C
	Usable capacity (SOC 5-95%)	135.9	Beginning of Life, C/3, @25°C
Voltage	Minimal operating	480 V	Cell-level allowable voltage limit
	Minimal operating (SOC 5%)	595,2	
	Nominal operating	685,4 V	Beginning of Life, C/3, @25°C
	Maximal operating (SOC 95%)	777,6	
	Maximal operating	805 V	Cell-level allowable voltage limit
Current	Discharge continuous	200 A	Depends on temperature and SOC
	Discharge pulse @10 sec.	350 A	Depends on temperature and SOC
	Charge continuous	200 A	Depends on temperature and SOC
	Charge pulse @10 sec.	350 A	Depends on temperature and SOC
Other	Recommended SOC operation range	5 – 100%	For long-life
	Degrees Of Protection Provided by Enclosure	IP6K7, IP6K9K	Acc. ISO20653:2023
	Withstand voltage	2.5 kVAC RMS	60 s; Acc. ISO 6469-3:2021
	Dimensions (L x W x H)	1090 x 630 x 540 mm	
Low voltage instal-lation	BMS supply voltage	24 V	
	BMS supply voltage range	9 ÷ 32 V	
	Communication interface	CAN 2.0B	In compliance with SAE J1939

System topology

