

DATA SHEET

Pro 8C-850

High Performance Traction Battery



The optimal choice for demanding transportation applications: Unmatched Lifespan, Power, and Safety!

Traction Battery Pro 8C-850

Key characteristics



Safe

HIGHEST SAFETY
Multi-layered safety architecture

Long life

>20.000 CYCLES



Rapid Charging

UP TO 80% SOC IN 12 MINUTES



Plug & play

EASY CONNECTIVITY
Simple installation



Flexible

MULTI-STRING PARALLELING
Flexible system capacity



LOW-TEMPERATURE OPERATION

Charge safely even at low temperatures



BATTERY MANAGEMENT SYSTEM

Safety Certified
SIL2 Functional Safety (IEC 61508 & EN 50126)

Technical data

Key ratings

Rated capacity	46 Ah
Nominal energy	33.9 kWh
Nominal voltage	736 Vdc
Charge cut-off voltage	864 Vdc
Discharge cut-off voltage	480 Vdc
Peak power charge / discharge	320 kW / 285 kW
Continuous power (charge / discharge)	135 kW

Lifetime

Design Life	15 Years
Cycle Life (at 35°C, 10-90 % SoC)	> 20.000 Cycles

Cooling

Type of cooling	Liquid Cooled
Coolant	Water + Glycol Mixture
Coolant flow rate	5 to 40 l/min
Pressure drop (at 250C & 40 l/min)	< 300 mbar

Operating environment

Operating temperature range	-30...55 °C
Recommended temperature range	15...35 °C
Altitude	≤ 3000m AMSL

Mechanical Data

Dimensions (L x W x H)	L1680 x W722 x H280 mm
Weight	475 ± 10 kg
Degree of Protection	IP66 or IP69

Communication & Diagnostics

Communication interface	CANopen, CAN SAE J1939
Diagnostics interface	CAN UDS

Tests & Certifications

IEC 62619, IEC 62620, ECE R100, ECE R10, UN 38.3, ISO 12405-4, IEC 62928
 SIL 2 functional safety according to IEC 61508 & EN 50126
 Shock & Vibration according to ISO 6469-1 & IEC 61373

Charge & Discharge characteristics

Voltage, Vdc

