

TRACTION BATTERY

Max 8C

High power battery pack for transportation



The Max 8C series of battery packs have been designed specifically for transportation applications with demanding requirements, such as rail, electrical bus, and off-road vehicles.

The 8C series offers high lifetime and fast charging capability for full electric vehicles.

Max battery pack

Key characteristics



Safe

HIGHEST SAFETY
By design and cell selection

>20.000

LONG LIFE
Over 20.000 cycles



80%

RAPID CHARGING
Charging in less than 10 min

Plug & play

EASY CONNECTIVITY
Simple installation



Flexible

MULTI-PACK PARALLELING
To adapt capacity



LOW-TEMPERATURE OPERATION

Excellent performance



BATTERY MANAGEMENT SYSTEM

Integrated supervision



CONFIGURABLE INTERFACES

For all installation needs

Technical data

Variants	Unit	8C-500	8C-700	8C-800	8C-850
Rating					
Nominal energy	kWh	20.3	27.9	30.5	33.0
Nominal voltage	V	442	607	662	718
Charge cut-off voltage	V	518	713	778	842
Discharge cut-off voltage	V	288	396	432	468
Peak power charge/discharge, up to	kW	200 / 175	275 / 240	300 / 260	325 / 285
Continuous power charge/discharge, typical	kW	85	115	125	140
Cell chemistry		Lithium Titanate Oxide (LTO)			
Discharge efficiency		>98 % at 25°C, 90%-10% SoC, 1C			
Mechanical data					
Dimensions (excl. mounting feet)	mm	L1200 x H484 x W490	L1588 x H484 x W490	L1727 x H506 x W488	L1857 x H506 x W488
Weight	kg	338	454	520	551
Mounting location		Exterior, e.g. roof or underfloor			
Degree of protection		IP 66/x9			
Shock & Vibration		ISO 6469-3, ECE R100, IEC 61373			
Cooling		Liquid cooling (water glycol)*			
		*Cooling power and flow rate to be selected based on operation profile			
Operation and diagnosis					
Communication interface		CANopen, CAN J1939 (in development)			
Service tool		Laptop-based service tool			
Lifetime					
Design life		15 years			
Cycle life		20'000 cycles at 35°C, 10-90 % SOC, 2C/2C			
Tested and certified					
Standards		ECE R100, IEC 62928, UN 38.3, IEC 62619, IEC 62620			

Block diagram

