

HVBS

HIGH VOLTAGE BATTERY SYSTEM



Product Description

High Voltage Battery System is developed according to EN ECE R100.02 standard, utilizing high performance Lityum Titanate Oxide cells. It is a modular and freely scalable system upto 8 battery packets.

Typical Applications

- Electric busses
- Electric trucks
- Hybrid Locomotives

Product Features

- Parallel connection topology (scalable upto 8 packets)
- Compact and lightweight solution
- High charge / discharge current
- Suitable for Ultra Fast Charging
- Safe and reliable battery management system
- Efficient liquid cooling
- Wide operating temperature range
- Rugged structure
- Robust, maintenance-free operation
- IP 67 protection
- Short circuit protection
- Developed according to ECE R100.02
- Voltage and temperature monitoring
- Passive cell balancing
- SOC/SOH analysis

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Electrical Data

Capacity	46 Ah
Cell Configuration	264S2P
Energy	27.9 kWh
Cell Chemistry	LTO
Nominal Voltage	607 VDC
Voltage Range	396 – 712 VDC
Continuous Charge Current	276 A
Continuous Discharge Current	276 A
Cycle Life	20.000 cycles
BMS Voltage	18 – 32VDC
Communication Protocole	CAN 2.0A

Mechanical Data

Weight	460 kg
Dimensions (L x W x H)	1700 x 315 x 1070 mm
Cooling Type	Liquid
Protection Class	IP 67
Operating Temperature Range	-30°C / +55°C
Storage Temperature Range	-40°C / +55°C

Applicable Standards

Certification	UN ECE R100.02, UN 38.3
Functional Compatibility	EN 50155
Electromagnetic Compatibility (EMC)	EN 50121-3-2
Shock and Vibration	EN 61373

Dimensions

