



IMMERSIO™ XM25

Immersion-Cooled Battery System

The safest and most durable battery system ready to integrate with your mobility applications



Extreme Safety

- Immersion cooling technology to suppress thermal runaway.
- ASM and MSD for active safety protection and manual operating safety.



Proven Reliability

- UN38.3 / ECE R100 Certified.
- BMS ISO 26262 / ECE R10 compliance.
- Cycle life up to 3,000 times; ready for off-highway application.



Optimal Performance

- XING designed BMS 2.0 with advanced thermal management.
- Scalable battery pack up to 800V and 16 string (4S16P).
- High C-rate with wide operating temperature.



Ready To Deploy

- Customizable & configurable CAN interface.
- Assembly & ship-out project control of certificated battery pack.
- Easy installation feature design.
- Intelligent OTA connected for data transmission & system upgrade.



COMMERCIAL VEHICLES



MINING



AGRICULTURE



CONSTRUCTION



Custom application design available
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IMMERSIO™ XM25

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- Active Thermal Runaway Suppression
- Highly Innovative BMS Solution
- 1C/1.67C Charge/Discharge
- High Volumetric Density Design
- Up to 16 Strings Scalable Battery Pack
- Volume Production Ready

XING BMS 2.0

- Dynamic SOC/SOH/SOP Algorithm
- Advanced Thermal Management
- Cell Balancing
- Active Safety & Protection Algorithm
- Intelligent OTA Upgrade
- Automotive Grade Component



DATASHEET

Cell Type	21700 NMC
Cooling Method	Immersion Cool

Electrical Data

Energy_nominal (kWh)	26.2
Voltage_nominal (V)	177
Voltage_max. (V)	200
Voltage_min. (V)	135
Peak Discharge current (10s)* (A)	840
Continuous Discharge current (A)	250
Peak Charge current (A)	225
Continuous Charge current (A)	150
Communication	CAN 2.0B
Life Cycle**	>3000

*Depending on SOC, temperature, and used cable
 **Depending on individual use profile, especially DoD, temperature and power

Mechanical Data

Dimension (L x W x H) (mm)	1238 x 477 x 230
Weight (kg)	202
Weight_dry* (kg)	186
Operating temperature** (°C)	-40 - 55
Storage temperature (°C)	-40 - 72
Ingress Protection	IP67

*Excluding coolant weight
 **Temperature range could be expended with cooling system upgrade

Certification

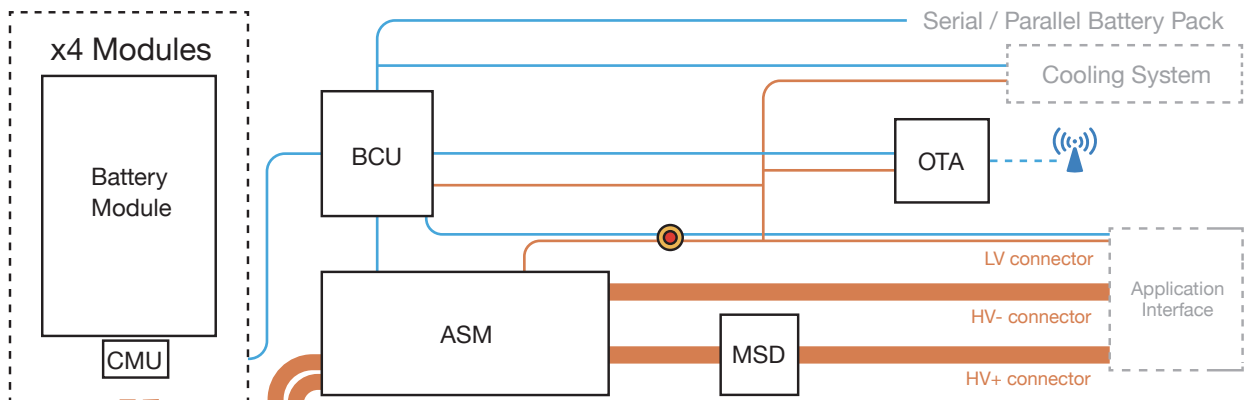
Transportation*	UN38.3
Performance Safety*	ECE R100
Isolation Resistance**	ISO 6469-1
Automotive grade components**	ISO 26262 ASIL-C
Production**	ISO9001

*Certification to be acquired in H2, 2022
 **Standard Compliance

System Feature

- 21700**
No fire propagation cells immersed in coolant
- MSD+HVIL (Manual Service Disconnect)**
Manual safety protection while installation and maintenance
- Enclosure**
ECE R100 fire resistance, IP67 verified, and compatible to ISO12944-2 C5
- OTA (Over-the-Air Unit)**
Real Time Transmission
- ASM (Active Safety Module)**
HV failure prevention for battery operating safety

SYSTEM BLOCK DIAGRAM



Battery System Block Diagram
 XING BMS [X] battery system function parts diagram