



IMMERSIO™ XM25

Immersion-Cooled Battery System

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



Active Thermal Runaway Suppression

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



Industry Certified

- ECE R100 certified / UN38.3 compliance.
- BMS ISO 26262 / IEC 62619 / ECE R10 compliance.
- Cycle life up to 3,000 times; ready for both off-highway applications and on-road vehicles.



Optimal Performance

- XING developed BMS 2.0 with advanced thermal management.
- Scalable battery pack up to 800V and 31 string(4S31P).
- 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



ENERGY STORAGE SYSTEM



Custom application design available
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IMMERSIO™ XM25

The first COTS (Commercial-Off-The-Shelf) immersion-cooled battery system

- Active Thermal Runaway Suppression
- Highly Innovative BMS Solution
- Up to 1C/1.67C Charge/Discharge (DoD 85%)
- High Volumetric Density Design
- Up to 31 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 NCM
Cooling Method	Immersion Cool

Electrical Data

Energy_nominal	(kWh)	25.5
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
 **Specifications varied for IEC 62619 compliance applications.
 ***Depending on individual use profile, especially DoD, temperature and power.

Mechanical Data

Dimension (L x W x H)	(mm)	1238 x 477 x 229
Weight	(kg)	202
Weight_dry*	(kg)	186
Operating temperature**	(°C)	-20 - 55
Storage temperature	(°C)	-40 - 72
Ingress Protection		IP67

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

Certification

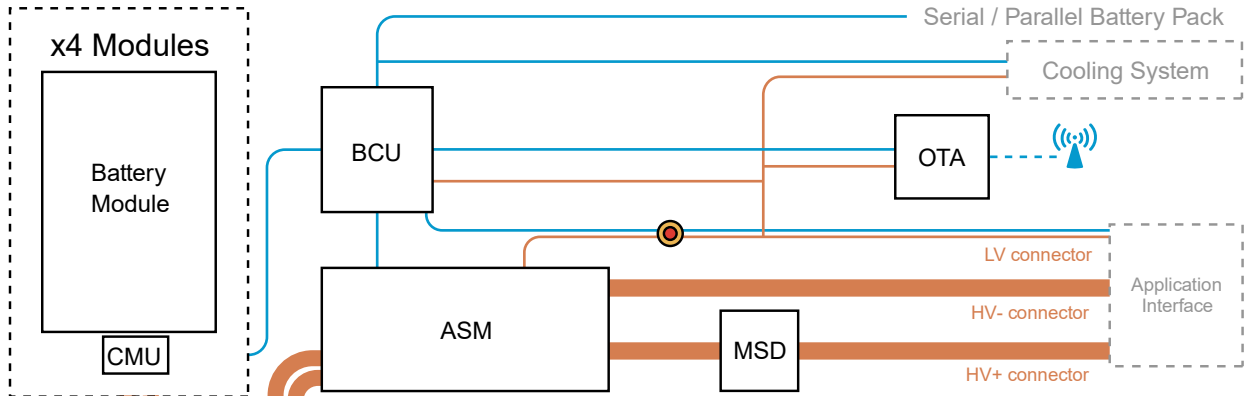
Transportation*	UN38.3
Performance Safety	ECE R100 / IEC 62619
Isolation Resistance*	ISO 6469-1
Automotive grade components*	ISO 26262 ASIL-C
Production*	ISO9001

*Standard Compliance

System Feature

- 21700 NCM No fire propagation cells immersed in coolant
- MSD+HVIL (Manual Service Disconnect) Manual safety protection while installation and maintenance
- Enclosure ECE R100, 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 2.0 battery system function parts diagram