

Custom application design available
xingmobility.com



IMMERSIO™ XM25

Immersion-Cooled Battery System

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



INDUSTRY CERTIFIED

- UN38.3 / ECE R100 / IEC 62619 Certified.
- BMS ISO 26262 / ECE R10 Compliance.
- Cycle life up to 3,000 times; ready for off-highway applications, on-road vehicles and energy storage systems.



ACTIVE THERMAL RUNAWAY SUPPRESSION

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



OPTIMAL PERFORMANCE

- XING developed BMS with advanced thermal management.
- Scalable battery pack up to 800V and 31 strings (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.

CUSTOM APPLICATION DESIGN AVAILABLE



AGRICULTURE



MINING



AUTOMOTIVE



COMMERCIAL
VEHICLE



CONSTRUCTION



ENERGY STORAGE
SYSTEM

Leave Request Now!



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IMMERSIO™ XM25

Immersion-Cooled Battery System

ENERGY
STORAGE

XINGMOBILITY

IMMERSIO™ XM25

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



Volume Production Ready

Up to 1C/1.67C Charge/Discharge (DoD 85%)

Active Thermal Runaway Suppression

High Volumetric Density Design

Up to 31 Strings Scalable Battery Pack

XING BMS Highly Innovative BMS Solution

- Predictive SOC, SOH, SOI
- OTA Transmission
- Customisable CAN
- System Scalability
- Cloud Based Data Analytics
- Cell Balancing
- Thermal Management
- Real-Time Monitoring
- Automotive Grade

Certification

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

*Standard Compliance



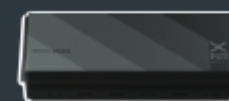
21700 NMC
No fire propagation cells immersed in coolant



MSD+HVIL / Manual Service Disconnect
Manual safety protection while installation and maintenance



OTA / Over-the-Air Unit
Real Time Transmission



Enclosure
ECE R100, IP67 verified, and compatible to ISO12944-2 C5

ASM / Active Safety Module
HV failure prevention for battery operating safety



SYSTEM FEATURE

DataSheet

Cell Type	21700 NMC
Cooling Method	Immersion Cooling

Mechanical Data

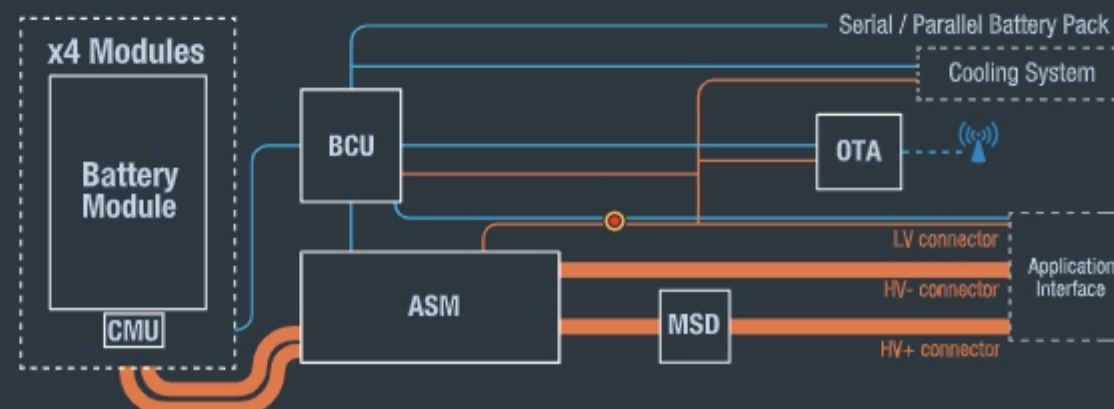
Dimension (L x W x H)	(mm)	1238 x 477 x 229
Weight	(kg)	202
Weight_dry*	(kg)	186
Operating temperature**	(°C)	-20 ~ 55
Storage temperature	(°C)	-40 ~ 72
Ingress Protection		IP67

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

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
---The specified requirement for the Continuous Charge current of Energy Storage System (ESS) is 100A



HV current █
LV current █
Communication —
Wireless communication - -

SYSTEM BLOCK DIAGRAM

XING BMS battery system function parts diagram