



IMMERSIO™ XE50

Next Generation Immersion Cooling Batteries

The Game-Changer for Energy Storage System

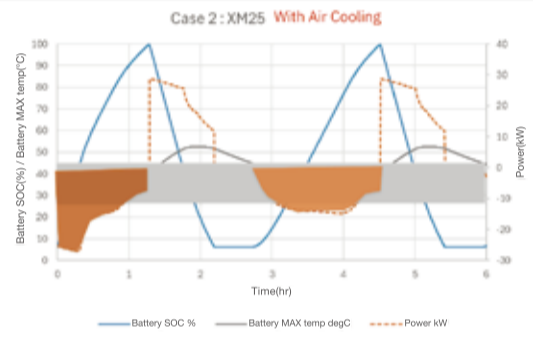
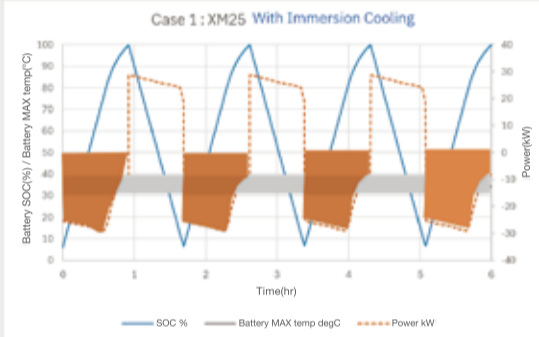
Cooling the Battery Revolution with Immersion Technology

XING Mobility is pioneering a game-changing approach to battery thermal management. Instead of relying on traditional air or liquid cooling systems, XING immerses battery cells in a special dielectric fluid. This fluid, engineered for optimal heat transfer, directly surrounds and envelops each cell, ensuring uniform and rapid cooling.

Immersion-Cooling PV ESS Solution

Simulate PV ESS with 1C/1C scenario in daylight 6hrs (9am to 3pm)

- Ambient temperature: 30°C
- Duration time: 6 hours (in daylight)
- Case1 – XING Immersion cooled flow rate: 5 l/min
- Case2 – Conventional Air cooled air flow rate: 62CFM



- XING immersion-cooling solution can provide ESS battery complete **4 times** of charging.
- The accumulated charge power in 6hr daylight : **80.8kWh**.

- Conventional air-cooled solution is **limited by cell temp**. The battery can only complete **2 times** of charging.
- The accumulated charge power in 6hr daylight : **40.4kWh**.

XING Mobility's Next-Gen Immersion Cooling Architectures

XING Mobility's immersion cooling battery energy storage system, IMMERSIO™, undergoes the world's inaugural 3-Needle Penetration Test for battery systems, conducted while the battery is fully charged at 100% SoC.

The IMMERSIO™ XE50 system enables high-safety, high-performance, high-volt ESS (series up to 1500V). Easy-to-install modules reduce operating costs. It supports FTM solar, wind, and renewable energy, as well as BTM commercial, industrial, and residential applications.



IMMERSIO™ XE50

IMMERSIO™ XE50 Specifications

Energy	Maximum Voltage	Rated Voltage	Certification	Compliance
52.4 kWh	403.2 V	354.2 V	UN38.3 IEC/CNS 62619 JIS-C-8715-2	UL9540A
Dimension	Dry Weight	Operating Temperature	Storage Temperature	Ingress Protection
D 988 W 501 H 744.8 mm	380 kg	-30~55 °C	-40~72 °C	IP 65

Watch how immersion cooling thermal runaway risk was controlled during a nail penetration test



<https://reurl.cc/13xd08>



Immersion cooling Enabled



Immersion cooling Disabled

