

Power Flexsso

3,125MWh/6,25 MWh 4h

Liquid-Cooled Energy Storage System



HiTHIUM's ooPower Flexsso is a safe, efficient, and regulatory-compliant energy storage system, designed specifically for the logistics and market requirements of weight-restricted transportation regions.

Based on advanced 1175Ah prismatic LFP cells and a Modular design, ooPower Flexsso combines superior performance with outstanding reliability and compliance.

Key Advantages

Safety First

- Multi-level safety architecture: Intrinsic safety, active safety, and passive safety at the cell level, module level, and system level
- Multi-stage fire detection & active protection system (NFPA 855 compliant)
- Triple-layer BMS for precise monitoring and secure operation

Designed for Italian Logistics

- ≤ 26t per 10 ft container for simplified road permits
- Modular 10 ft design for flexible transport and installation
- Ready-to-deploy: no on-site injection or extra mounting required

High Efficiency & Long Life

- ≥ 95% round-trip efficiency (DC)
- Advanced liquid cooling design minimizes auxiliary consumption and extends cycle life.
- Stable operation across a broad climate range.

Compliant & Sustainable

- Fully aligned with EU Battery Regulation (2023/1542)
- RoHS and REACH compliant, cobalt-free design,
- Eco-friendly refrigerant & High recyclability

Applications

- Utility-scale grid support
- Renewable integration
- Industrial storage & backup

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Liquid-cooled energy storage system based on prismatic LFP cells with superior performance



GENERAL	
Configuration	2*1P416S ⁴ 4*1P416S ⁵
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet
Gravimetric ED	≥ 120 Wh/kg
Volumetric ED	≥ 130 Wh/L
Application Altitude	≤ 4.000 m

ELECTRICAL	
Nominal Voltage	1.331,2 V
Operating Voltage	1.100...1.500V
Nominal Energy	3.125 kWh ^{1,2,4} 6.250 kWh ^{1,2,5}
Nominal SOC at Delivery	27 % ²
Nominal Charge/Discharge Rate	0,25 P / 0,25 P
Round Trip Efficiency	≥ 95 % ^{1,2}

¹ 0,25 P / 0,25 P

² 25 °C +/- 2 °C

³ ambient temperature

⁴ Single 10-ft container with control panel

⁵ Two 10-ft containers with control panel

* In progress

MECHANICAL	
Dimensions (L x W x H)	3.395 x 2.438 x 2.896 mm ⁴ 6.436 x 2.438 x 2.896 mm ⁵
Maximum Weight	26.000 kg ⁴ 25.000+26.000 kg ⁵
Protection Level	IP 55

TEMPERATURE RANGE	
Operating	-30 °C ... 55 °C ³
Storing (Recommended)	-20 °C ... 35 °C ³

PRODUCT CERTIFICATIONS AND COMPLIANCE*	
Certificates and Compliance	IEC 62619, IEC 62620, IEC 62477, IEC 63056, IEC 61000, IEC 62933, UL 1973, UL 9540A, NFPA 855
Safe Transportation	UN 38.3

ENVIRONMENTAL*	
Compliance	RoHS, REACH, Cobalt free
Regulation (EU)	2023/1542

COMPANY CERTIFICATIONS	
	ISO 9001, ISO 14001, ISO 45001, SA 8000

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