WASTE BATTERY PREVENTION & END-OF-LIFE MANAGEMENT GUIDE

Regulation (EU) 2023/1542 - Article 74(1)(a)-(f) & Annex XIII Pt 1(s)

Mandatory end-user and waste-treatment operator safety & collection instructions.

1. Product & Battery Passport Identification

DoC Reference No.: EU-WASTE-06972026111401-SN-ESS-2026110088
Battery Model: Eco-grade 5.12kWh LFP Home Energy Storage System (Model: SZ-ESS-5120) (SZ-ESS-5120 / Batch 202610-EU-IP65 / SN-ESS-2026110088)
Statutory Category: INDUSTRIAL_GT_2KWH
GS1 GTIN (01): 06972026111401 | Serial Number (21): SN-ESS-2026110088
GS1 Digital Link (UPI): https://id.sherlock-dbp.eu/01/06972026111401/21/SN-ESS-2026110088
Place / Date of Manufacture: Pingshan Smart Factory Line 2, Shenzhen, Guangdong, China (2026-10)
Responsible Operator (Art. 77(4)): EuroRep GmbH (DE4981203948102)
Postal Address: Hanauer Landstraße 291, 60314 Frankfurt am Main, Germany

(a) End-User Contribution to Waste Prevention

Avoid deep discharge below 10% SoC, maintain ambient temperature between 5°C and 35°C, and apply scheduled BMS firmware updates.

(b) Separate Collection Duties of End-Users

Do not dispose of in municipal waste. Industrial batteries >2kWh must be returned through authorized EU B2B take-back networks.

(c) Take-Back Networks, Second-Life Preparation & Recycling

Free take-back via EuroRep GmbH & certified EU WEEE/Battery PROs (Stiftung GRS Batterien, BattG-Reg-Nr. DE88912044).

(d) Safety Instructions & Approved Extinguishing Media

Extinguishing Agents (#14): Water mist (preferred for cooling), FK-5-1-12 (Novec 1230), Class D dry powder
Insulate terminals prior to transport; never open housing or immerse damaged cells indoors.

(e) Meaning of Separate Collection & Heavy-Metal Symbols

Separate Collection Symbol (Art. 13(4)): Crossed-out wheeled bin symbol affixed per Art. 13(4)
Cd / Pb Marking (Art. 13(5)): None required (Cd < 0.0005%, Pb < 0.001%)

(f) Hazardous Substances Impact on Health & Environment

Substances Present (#13): Lithium hexafluorophosphate (LiPF6, CAS 21324-40-3); Ethylene carbonate (CAS 96-49-1)
Battery cells contain lithium salts and organic carbonates that pose environmental and thermal hazards if mishandled.