

PACKING INSTRUCTION

ThorPak®

Battery Small Steel

Key Figures

Description	Type-tested steel load carrier
Type	01_250
External dimensions in mm	600 x 400 x 250
Tare weight	8 kg
Max. gross weight	25 kg
Maximum stack load	330 kg
UN packaging approval	UN 4A/Y28/S/24/CN/C311209/PI:00X



Inspection before packaging activity:

- Check transport boxes for damage and arrange for repairs if necessary.
- Only batteries that are safe for transport may be loaded.
- Proof required through transport assessment protocol.

TRANSPORT IS PROHIBITED WITHOUT ASSESSMENT PROTOCOL OR IF NOT IN TRANSPORT-SAFE CONDITION

Description

This is a Steel packaging for LITHIUM METAL BATTERIES (including batteries with lithium alloys) UN 3090, or LITHIUM-ION BATTERIES (including lithium-ion polymer batteries) UN 3480. The design complies with the following applicable dangerous goods regulations: ADR, RID, ADN and IMDG, according to packing instructions P908, P909, P910 for a maximum gross mass of 25 kg as per the ThorPak battery type. The inner packaging must be enclosed with a sufficient quantity of non-combustible and non-electrically conductive thermal insulation material to protect against dangerous heat development.

The non-combustibility must be determined in accordance with a standard recognised in the country where the packaging is designed or manufactured. This packaging is not approved for a single damaged or defective battery that may, under normal transport conditions, rapidly decompose, dangerously react, produce a flame or dangerous heat, or emit dangerous toxic, corrosive or flammable gases or vapours, as described in P911.

Tested & certified according to

ADR, 2021 edition.

RID, 2021 edition.

ADN, 2021 edition.

IMDG, 2021 edition / Code IMDG amdt 40-20.

OACI-IT, 2021 edition / OACI-IT 2021-2022.

According to norm **UNE-EN ISO 16495:2014 Annex I** and regulations in force:

ADR, ADN, RID and IMDG

UN No.	Name & Description	Class	Packaging Group	Packaging Instructions
3090	LITHIUM-METALL-BATTERIEN (including batteries with lithium alloy)	9	II, III	P908, P909, P910
3480	LITHIUM-IONEN-BATTERIEN (including batteries with lithium alloy)	9	II, III	P908, P909, P910

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- 1.** Open security straps, two-piece container lid & SwagBag (non-combustible inner packaging)
- 2.** Position battery or cell on the fire protection cushion
- 2.1.** When using one battery or cell, place the separator next to the battery or cell
- 2.2.** When using two or more batteries or cells, separate the batteries/cells from each other using separators (Figure 1)
- 3.** First fold the side parts on the short side of the inner packaging inward (Figure 2), then fold the long side of the inner packaging forward (Figure 3)
- 4.** Fold the front cover of the inner packaging backward to cover the inner part of the container (Figure 4)
- 5.** Close two-piece container lid (Figure 5) and tighten tension strap (Figure 6)
- 6.** Tighten the two tension straps on the left and right of the long side (Figure 7)



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6



Figure 7



PACKING INSTRUCTION

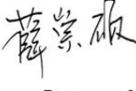
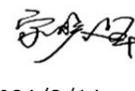
ThorPak®
Battery Small Steel



No. : ZR/SZ-20240808-03

Test Report

Product Name	battery metal box		
Testing Type	commission		
Applicant	Ningbo Joy Intelligent Logistics Technology Co.,Ltd.		
Address	No.1111 South Wushan Road, Qiaotou Town, Cixi, Zhejiang, China		
Manufacturer	Ningbo Joy Intelligent Logistics Technology Co.,Ltd.		
Address	No.1111 South Wushan Road, Qiaotou Town, Cixi, Zhejiang, China		
Model/Type	592*396*255mm		
Sample arrival date	2024/8/8	Sample (s) Quantity	2 units
Weight	7.79kg	Sample Dimensions	592m×396mm×255mm
Start date	2024/8/8	End date	2024/8/12
Sample(s) Status	The sample is a metal box with no printing on the surface and no abnormal appearance.		
Testing Criterion	GB 12463 - 2009 General specifications for transport packages of dangerous goods		
Test Item(s)	Stacking Test,Drop test.		
Test Conclusion	After testing, the performance of the sample meets the requirements of GB 12463 - 2009 Class II packaging..		
Note	Client's requirement: 1. Stacking test: 330kg, 24h; 2. Drop test: The internal counterweight is 20kg, drop height 1.2m..		

Certifier: Examiner: Editor: 

Date of Issue: 2024/8/14

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