

Lithium Ion Battery Test Summary

- (a) Model Number A-HS30B (※A-HS30B is identical to Model KA-B30B except for model designation)
- (b) Product manufacturer IDX Company, Ltd.
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- (c) Test laboratory Chemicals Testing Center of Nanjing University of Science and Technology
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URL http://iemcn.njust.edu.cn
- (d) Identification number No 22F245
- (e) Date of test report 2022-09-07
- (f) Description of Product Lithium ion Rechargeable Battery / Hot Swap Adaptor
Nominal Voltage 10.8V
Capacity(mAh/Wh) 3000mAh/32Wh
Lithium equivalent content 5.4g
Mass 750g
Physical description Battery with outer case

(g) Test Result

No.	Test Item	Test Results	Note	
T1	Altitude Simulation	Pass	First cycle fully charged 5 batteries	After 25 cycle fully charged 5 batteries
T2	Thermal Test	Pass		
T3	Vibration	Pass		
T4	Shock	Pass		
T5	External Short Circuit	Pass		
T6	Impact	Pass	First cycle 50% charged 5 cells	After 25 cycle 50% charged 5 cells
T7	Overcharge	Pass	First cycle fully charged 4 batteries	After 25 cycle fully charged 4 batteries
T8	Forced Discharge	Pass	First cycle fully discharged 10 cells	After 25 cycle, fully discharged 10 cells

- (h) Assembled Battery Testing Requirements N/A.
- (i) Reference edition UN Manual of Tests and Criteria, ST/SG/AC.10/11/Rev.7/Section38.3
- (j) Signature Tatsuya Ishiguro
Tatsuya Ishiguro, General Manager
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IDX Company, Ltd.



IDX Company, Ltd.

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No. XC25T0025-02

SAFETY DATA SHEET FOR PRODUCT

1. PRODUCT AND COMPANY IDENTIFICATION

- Product Name: Lithium Ion Rechargeable Hot Swap Adaptor
- Product code: A-HS30B
(A-HS30B is identical to Model KA-B30B except for model designation)
- Company Name: IDX Company, Ltd.
- Address: 6-28-11 Shukugawara, Tama-ku, Kawasaki-shi,
Kanagawa-ken, 214-0021 Japan
- Telephone number: +81-44-850-8801
- FAX number: +81-44-850-8838
- Emergency Telephone Number: +81-44-850-8831 (Technical Development. Direct)

2. HAZARDS IDENTIFICATION

Class Name: Not applicable for regulated class

Hazard: It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable. In case of electrolyte leakage, move the battery from fire immediately.

Toxicity : Vapor generated from burning batteries, may make eyes, skin and throat irritate.

3. COMPOSITION / INFORMATION ON INGREDIENTS

IMPORTANT NOTE:

The battery should not be opened or burned since the following ingredients contained within the battery that could be harmful under some circumstance if exposed or misused.

The cell contains neither metallic lithium nor lithium alloy.

Common chemical name / General name	CAS number	Concentration / Concentration range
Lithium Nickel Cobalt Oxides	113066-89-0	38%
Graphite	7782-42-5	18%
Ethylene Carbonate	96-49-1	3%
Dimethyl Carbonate	616-38-6	7%
Lithium hexafluorophosphate	21324-40-3	3%
Aluminum	7429-90-5	4%
Copper	7440-50-8	12%
Iron	7439-89-6	15%

4. FIRST-AID MEASURES

The product contains organic electrolyte. In case of electrolyte leakage from the battery, actions described below are required.

Eye contact: Flush the eyes with plenty of clean water for at least 15 minutes immediately, without rubbing, and call a doctor. If appropriate procedures are not taken, this may cause an eye irritation.

Skin contact: Wash the contact areas off immediately with plenty of water and soap. If appropriate procedures are not taken, this may cause sores on the skin.

Inhalation : Remove to fresh air immediately, and call a doctor.

5. FIRE-FIGHTING MEASURE

- Use specified extinguishers (gas, foam, powder) and extinguishing system under the Fire Defense Law.
- Since corrosive gas may be produced at the time of fire extinguishing, use an air inhalator when danger is predicted.
- Use a large amount of water as a supportive measure in order to get cooling effect if needed. (Indoor/outdoor fire hydrant)
- Carry away flammable materials immediately in case of fire.
- Move batteries to a safer place immediately in case of fire.



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6. ACCIDENTAL RELEASE MEASURES

- Wipe off with dry cloth
- Keep away from fire
- Wear safety goggles, safety gloves as needed

7. Precautions for Safe Handling and Use

Storage:	Store within the recommended limit of -20°C to 45°C (-4°F to 113°F), well-ventilated area. Do not expose to high temperature (60°C/140°F). Since short circuit can cause burn hazard or safety vent to open, do not store with metal jewelry, metal covered tables, or metal belt.
Handling:	Do not disassemble, remodel, or solder. Do not short + and - terminals with a metal. Do not open the battery.
Charging:	Charge within the limits of 0°C to 45°C (32°F to 113°F) temperature. Charge with specified charger designed for this battery.
Discharging:	Discharge within the limits of -20°C to 60°C (-4°F to 140°F) temperature.
Disposal:	Dispose in accordance with applicable federal, state and local regulations.
Caution:	Fire, Explosion, and Severe Burn Hazard. Do not Crush, Disassemble, Heat Above 100°C/212°F, or Incinerate.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (In case electrolyte is leaked from battery)

Acceptable concentration :	Not specified in ACGIH.
Facilities:	Provide appropriate ventilation such as local ventilation system in the storage.
Protective clothing:	Gas mask for organic gases, safety goggle, safety glove.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Lithium Ion Rechargeable Cells.
Average Operating Voltage:	3.6V.

10. STABILITY AND REACTIVITY

External short-circuit, deformation by crush, high temperature (over 100°C) exposure of a battery cause generation of heat and ignition.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : No information as a battery
Local effects : No information as a battery

12. ECOLOGICAL INFORMATION

When exhausted battery is buried in the ground, corrosion may be caused on the outer case of battery and electrolyte may be oozed. There is no information on environmental influence.

13. DISPOSAL CONSIDERATIONS

When battery is disposed, isolate positive (+) and negative (-) terminals of the battery to avoid those terminals from touching each other. Batteries may be short-circuited when piled up or mixed with the other batteries in disorder. Dispose in accordance with applicable federal, state and local regulations



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14. TRANSPORT INFORMATION

In the case of transportation, avoid exposure to high temperature and prevent the formation of any condensation. Take in a cargo of them without falling, dropping and breakage. Prevent collapse of cargo piles and wet by rain. The container must be handled carefully. Do not give shocks that result in a mark of hitting on a batteries.

UN classification

- UN Number and proper shipping name :
UN3480 "Lithium ion batteries " [or UN3481 "Lithium ion batteries packed with equipment " or UN3481 "Lithium ion batteries contained in equipment"].

[Watt-hour rating is not more than 100Wh]

A-HS30B

Class9 Dangerous Goods (PI965 section IB)

Cargo Aircraft Only

Exempted Dangerous Goods (PI965 section 2) is 2 batteries per one packaging.

UN Specification packaging is not required. Packaging must be test for 1.2m drop test.
Maximum of 20 spare batteries in carry-on baggage only.

All IDX Li-ion batteries have Wh rating marked on notation.

Batteries capacity is must be transport at a state of charge(SoC) not exceeding 30% of the their rated capacity.

* Although this product meets the criteria of "dangerous goods" and are classified "lithium ion batteries", depending on the battery's total capacity in the packaging, etc., they may not be subject to the fully regulated provisions.

Regulation depends on region and transportation mode

- Worldwide, Air transportation :
ICAO/IATA-DGR [packing instruction 965 section IA, Section IB]
(when shipping batteries "packed with" or "contained in" equipment, use packing instruction 966 or 967 as appropriate.)
- Worldwide, Ocean transportation : IMO-IMDG Code [special provision 188]
- Europe, Ground transportation : ADR [special provision 188]

* Instructions or provision in the box brackets are conditions to make the battery cell exempted from full regulation.

15. REGULATORY INFORMATION

- IMDG Code: International Maritime Dangerous Goods (IMDG) Code 2022 Edition
- ICAO TI: International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air 2025-2026 Edition
- IATA DGR: International Air Transport Association (IATA) Dangerous Goods Regulations 66th Edition



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16. OTHER INFORMATION

- The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.
- This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
- IDX makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. IDX assumes no responsibility for injury from the use to the product described herein.

- Reference

- Dangerous Goods Regulations – 67th Edition Effective from 1 January 2026: International Air Transport Association (IATA)
 - IMDG Code 2024 Edition (inc. Amendment 42-24): International Maritime Organization (IMO)
 - Agreement concerning the International Carriage of Dangerous Goods by Road - 2025 (ADR): The United Nations Economic Commission for Europe (UNECE)
- SDS of raw materials prepared by the manufactures

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Prepared and approved by
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