



SAFETY DATA SHEET

Product name: BL-N-BP125

Company name: NEP Inc.

Address: VORT KUDAN 3F, 3-7-14 KUDAN MINAMI, CHIYODAKU, TOKYO 102-0074, JAPAN

TEL: +81-3-3263-6741, (Emergency TEL(Kunio Masaoka Handy Phone): +81-90-6027-0828)

FAX: +81-3-3263-6741

This battery pack contains below mentioned materials.

Detailed document number is Q06-M072

general name	CAS No.	concentration (%)
Nickel oxide	1313-99-1	<30
Manganese oxide	1313-13-9	<30
Cobalt Oxide	1307-96-6	<30
Carbon	7440-44-0	<30
Electrolyte	96-49-1	<20
Aluminum	7429-90-5	2-10
Cooper	7440-50-8	2-10
Poly Vnylidene Fluoride	24937-79-9	<10
Other	N/A	5-10

Transport information

UN No.	proper shipping name	class
3480 (965)	Lithium-ion battery	9

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CHIYODAKU, TOKYO 102-0074, JAPAN

NEP Inc.



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PRODUCT INTRODUCTION SHEET

Brand: NEP Inc. (Beillen)

Model: BL-N-BP125HE-S

Cell:	Li-ion
Type:	V-lock Li-ion Battery
Voltage:	14.4 V
Capacity:	Typical ---8.6Ah /125Wh
Built-in:	Standard Power Tap connector for direct camera light supply 5V2A USB 2.0 output for smart mobile phone
Suggest operating temperature:	-20° C ~ +55° C
Dimension:	95(W) X 152 (L) X 55(D)mm(± 1mm)
Weight:	Approximately 1025g
Short circuit protection:	Built-in recoverable PCB
Cut-off voltage:	11 V (Test data of lab, different camera will have different running time based on its own cut-off voltage)
Charging voltage:	16.4 V
Transportation:	The aggregate equivalent lithium content: 10.3g (Seal, separate and keep in strong packaging during transportation.)

Maximum load: 180W

With 180W load:

4 LED remained:	after 8min.	3 LED remained:	after 25min.
2 LED remained:	after 16 min.	1 LED remained:	after 33min.

Total running time: 41 min.

(Above data is approximate test result, different cell performance will have different discharge voltage and running time)

Charging time by Beillen chargers (full charge):

BLB-T1A-B:	Approx.380 min.
BLB-BP2E:	Approx. 305 min.
BLB-BP4E:	Approx. 305 min.

Remarks:

- * It is compatible with all professional video cameras using V-lock battery packs.
- * This model is specially designed for overseas market only.
- * After 600 charge/discharge cycles, it is normal if the remaining capacity is lower than 60% of initial capacity.

Life cycle test conditions:

- Temperature: $2 \pm 2^{\circ}\text{C}$
- Relative humidity: $65\% \pm 5$.
- Atmospheric pressure: 86 Kpa ~ 106Kpa
- Measure the remaining capacity after 300 charge/discharge cycles at 0.5C with cut-off voltage set to 11.00V.



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Lithium ion Battery Test Summary(Certificate of UN test)

model	BL-N-BP125
Brand/Manufacturer	NEP Inc./JIADE ENEERGY technology
Address	VORT KUDAN 3F , 3-7-14 KUDANMINAMI , CHIYODAKU , TOKYO , 102-0074 , JAPAN
Tel	+81-3-3263-6741
e-mail	info@nepinc.co.jp
URL	https://nepinc.co.jp
Test Laboratory	Shenzhen SEM.TEST Technology CO.,Ltd.
Address	1/F.,ROOM 101,BUILDING1,HONGWEI INDUSTRIAL PARK,LIUXIAN'ER ROAD,BLOCK70,BAO'AN DISTRICT,SHENZHEN,GUANGDONG,CHINA
TEL	+86-0755-33663308
e-mail	admin@semtest.com.cn
URL	www.semtest.com.cn
Document Number	STR16069045S
Date of Test	2016-04-07
Description of Product	Lithium ion Rechargeable Battery
Normal Voltage	14.4V
Capacity(mAh/Wh)	8600mAh/125Wh
Lithium Equivalent Content	10.3g
Product Weight	1025g

Test Result

No.	Name of Test	Test Result	NOTE	
T1	AltitudeSimulation	Pass	First Cycle Fully charged 4 batteries	After 50 Cycle Fully charged 4 batteries
T2	Thermal Test	Pass		
T3	Vibration	Pass		
T4	Shock	Pass		
T5	External Short Circuit	Pass		
T6	Impact	Pass	First Cycle 50% charged 5cells	
T7	Overcharge	Pass	First Cycle Fully charged 4 batteries	After 50 Cycle Fully charged 4 batteries
T8	Forced Discharge	Pass	First Cycle Fully Discharged 10 cells	After 50 Cycle Fully Discharged 10 cells

Assembled Batttery Test

Reference Edition

Signature

Not applicable

UN Manual of Tests and Criteria,ST/SG/AC.10/11/Rev.6 PartIII,Sub-section 38.3

Kunio Masaoka

Kunio Masaoka(Sales Manager)

Sales and Marketing Div.

NEP Inc.



Company name: NEP Inc.

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1.2m Drop Test Report

model	BL-N-BP125
Brand/Manufacturer	NEP Inc./JADE ENEERGY technology
Address	VORT KUDAN 3F , 3-7-14 KUDANMINAMI , CHIYODAKU , TOKYO , 102-0074 , JAPAN
Tel	+81-3-3263-6741
e-mail	info@nepinc.co.jp
URL	https://nepinc.co.jp
Test Laboratory	Shenzhen SEM.TEST Technology CO.,Ltd.
Address	1/F.,ROOM 101,BUILDING1,HONGWEI INDUSTRIAL PARK,LIUXIAN'ER ROAD,BLOCK70,BAO'AN DISTRICT,SHENZHEN,GUANGDONG,CHINA
TEL	+86-0755-33663308
e-mail	admin@semtest.com.cn
URL	www.semtest.com.cn
Document Number	STR16069045S-1
Date of Test	2016-06-14

Battery Specification


Description of Product	Lithium ion Rechargeable Battery
Normal Voltage	14.4V
Capacity(mAh/Wh)	8600mAh/125Wh
Lithium Equivalent Content	10.3g
Product Weight	1025g

Test Result

Inspection method and Procedure	IATA Dangerous Goods Regulation(DGR)62th Edition
Shipping name	Lithium ion Batteries
Class or Division	9
UN number	UN3480
Packing requirements	The goods are packing according to Packaging Instruction 965 section IA
Performance requirements	Packing Group II
UN Packing Code/Group (Box)	4G/Y
Packing information	Size:360x360x360mm Battery Net Weight:11.0kg Battery number:10pcs

We declare that above-mentioned test is passed.

Signature


Kunio Masaoka(Sales Manager)
Sales and Marketing Div.
NEP Inc.



珠海市嘉德电能科技有限公司
Jiade Energy Technology(Zhuhai) Co., Ltd.

材料安全数据表 Material Safety Data Sheet

报告编号 (Report No.) : Q06-M072

样品名称(Sample Name): 锂离子电池
Li-Ion Battery

型 号 (Model) : BL-N-BP125

制 造 商
(Manufacturer) : 珠海市嘉德电能科技有限公司
Jiade Energy Technology (Zhuhai) Co., Ltd.



1. 化学品名称和制造商信息 Chemical Product & Company Information		
产品名称 Product Name	锂离子电池 Li-Ion Battery	
型号规格 Model/Type	BL-N-BP125 / 14.4V 8.6Ah 125WH	
重量 Weight	约 Approx. 970g	
制 造 商 Manufacturer	珠海市嘉德电能科技有限公司 Jiade Energy Technology（Zhuhai）Co., Ltd.	
制造商地址 Manufacturer Address	珠海市金湾区三灶镇定湾七路 9 号 1# 厂房 #1 Building, No.9 The 7th Dingwan Road, Sanzao Town, Jinwan District, Zhuhai, P.R. China	
应急电话 Emergency Telephone	+86-756-8287186	
审 核 Checked by	Zhang Cheng 章成	日期（Date）： 2021-11-22
批 准 Approved by	Li Jizhou 李纪洲	日期（Date）： 2021-11-22

2. 危险性概述 Hazards Identification	
爆炸危险性 Explosive risk	该物品不属于爆炸危险品 This article does not belong to the explosion dangerous goods
易燃危险性 Flammable risk	该物品不属于易燃危险品 This article does not belong to the flammable material
氧化危险性 Oxidation risk	该物品不属于氧化危险品 This article does not belong to the oxidation of dangerous goods
毒害危险性 Toxic risk	该物品不属于毒害危险品 This article does not belong to the toxic dangerous goods
放射危险性 Radioactive risk	该物品不属于放射危险品 This article does not belong to the radiation of dangerous goods
腐蚀危险性 Mordant risk	该物品不属于腐蚀危险品 This article does not belong to the corrosion of dangerous goods

3.成分/组成信息 Composition information			
化学成分 Chemical Composition	化学式 Chemical Formula	CAS 号 CAS No.	重量百分比 Concentration
镍氧化物 Nickel oxide	NiO	1313-99-1	<30
二氧化锰 Manganses dioxide	MnO ₂	1313-13-9	<30
钴氧化物 Cobalt oxide	CoO	1307-96-6	<30
碳 Carbon	C	7440-44-0	<30
电解液 Electrolyte	C ₃ H ₄ O ₃	96-49-1	<20
铝 Aluminium	Al	7429-90-5	2-10
铜 Copper	Cu	7440-50-8	2-10
聚偏氟乙烯 Polyvinylidene fluoride	C ₂ H ₂ F ₂	24937-79-9	<10
其它 Other	NA	NA	5-10

4. 急救措施
First Aid Measures

眼睛: 万一接触, 立即用大量的清水冲洗至少 15 分钟, 翻起上下眼睑, 直到化学的残留物消失为止, 迅速就医。

Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

皮肤: 万一接触, 用大量水冲洗至少 15 分钟, 同时除去污染的衣物和鞋子, 迅速就医。

Skin: Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

吸入: 立即从暴露处移至空气清新处, 如果呼吸困难给予输氧, 立即就医。

Inhalation: Remove from exposure and move to fresh air immediately. Use oxygen if available.

食入: 饮用两杯牛奶或水。如果当事人仍然清晰可以采取催吐的方法, 并且立即就医。

Ingestion: Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician

5. 消防措施

Fire Fighting Measures

燃点: 不适用

Flash Point: N/A.

自燃温度: 不适用

Auto-Ignition Temperature: N/A.

灭火介质: 大量水 (降温), 二氧化碳

Extinguishing Media: Water, CO₂.

特殊灭火程序: 自给式呼吸器

Special Fire-Fighting Procedures: Self-contained breathing apparatus.

异常火灾或爆炸: 当电芯暴露于过热的环境中时, 安全阀可能会打开。

Unusual Fire and Explosion Hazards: Cell may vent when subjected to excessive heat-exposing battery contents.

燃烧产生的危险物品: 一氧化碳, 二氧化碳, 锂氧化物烟气

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

6. 泄露应急处理

Accidental Release Measures

为防止电池材料泄露或释放采取的措施:

如果电池内部材料泄露, 试验人员应立刻撤离试验区直到烟气消散。将通风设备打开吹散危险性气体。用抹布擦净试验区, 清除溢出的液体, 将泄露电池放进塑料袋中, 然后放进钢制容器。避免皮肤和眼睛接触或吸入有害气体。

Steps to be taken in case Material is Released or Spilled:

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

废弃物处置方法:

建议将电池完全放电, 消耗电池内部的锂金属, 并且深埋于土壤中。

Waste Disposal Method:

It is recommended to discharge the battery to the end, to use up the metal lithium inside the battery, and to bury the discharged battery in soil.

7. 操作和储存 Handling and Storage

禁止打开、毁坏或焚烧电池，因为电池有可能在这些处理过程中发生爆炸、破裂或泄露等事故。禁止将电池短路、过充、强制放电或扔入火中。禁止挤压刺穿电池或将电池浸入溶液中。

The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.

操作处置和储存中的防范措施

禁止物理或电滥用，禁止高温储存，最好将电池储存在阴凉、干燥、通风及温度变化较小的环境中。禁止将电池接触加热设备或将电池直接暴露与阳光中。

Precautions to be taken in handling and storing:

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

其他要注意的防范措施

拆解、挤压、直接放入火中或高温条件下，电池可能发生爆炸和燃烧。禁止短接或将电池正负极错误的安装在设备中。

Other Precautions:

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

8. 接触控制/个人防护 Exposure Controls/Personal Protection

呼吸防护:

当电池排气阀打开时，应尽量使通风设备开至最大，避免将打开排气阀的电芯局限在某一狭窄空间内。正常操作条件下，呼吸保护是不必要的。

Respiratory Protection:

In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.

通风条件: 正常使用条件下不必考虑。

Ventilation: Not necessary under conditions of normal use.

防护手套: 正常使用条件下不必考虑。

Protective Gloves: Not necessary under conditions of normal use.

其他防护服装或设备: 正常使用条件下不必考虑。

Other Protective Clothing or Equipment: Not necessary under conditions of normal use.

电池开阀试验时应做好个人防护: 呼吸防护，防护手套，防护服装和有护边的安全玻璃罩都是要准备的。

Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

9. 物理和化学特性

Physical and Chemical Properties

外形: 方形

Appearance: Square

气味: 泄漏时, 有醚的气味。

Odour: If leaking, smells of medical ether.

酸碱度: 不适用

pH: Not applicable as supplied.

闪点: 针对单个组分暴露情况, 其他不适用。

Flash Point: Not applicable unless individual components exposed.

易燃度: 针对单个组分暴露情况, 其他不适用。

Flammability: Not applicable unless individual components exposed.

相对密度: 针对单个组分暴露情况, 其他不适用。

Relative density: Not applicable unless individual components exposed.

溶解性 (水溶性): 针对单个组分暴露情况, 其他不适用。

Solubility (water): Not applicable unless individual components exposed.

溶解性 (其他): 针对单个组分暴露情况, 其他不适用。

Solubility (other): Not applicable unless individual components exposed.

10. 稳定性和反应活性

Stability and Reactivity

稳定性: 产品在第 7 节所述的条件下稳定。

Stability: Product is stable under conditions described in Section 7.

应避免的条件: 加热 70° C 以上或焚烧、变形、毁坏、粉碎、拆卸、过充电、短路, 长时间暴露在潮湿的条件下。

Conditions to Avoid: Heat above 70° C or incinerate. Deform. Mutilate. Crush. Disassemble. Overcharge. Short circuit. Expose over a long period to humid conditions.

应避免的材料: 氧化剂, 碱, 水。

Materials to avoid: Oxidising agents, alkalis, water.

危险分解物: 有毒烟雾, 并可能形成过氧化物。

Hazardous Decomposition Products: Toxic Fumes, and may form peroxides.

聚合危害: 不适用

Hazardous Polymerization: N/A.

如果发生泄露, 避免与强氧化剂, 无机酸, 强碱, 卤代烃接触。

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

11. 毒理学信息 Toxicological Information

标志及症状: 无, 除非电池破裂。

Signs & symptoms: None, unless battery ruptures.

内部物质暴露的情况下, 蒸汽烟雾可能对眼睛和皮肤的刺激性。

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

吸入: 对肺有刺激性。

Inhalation: Lung irritant.

皮肤接触: 对皮肤刺激性。

Skin contact: Skin irritant.

眼睛接触: 对眼睛有刺激性。

Eye contact: Eye irritant

食入: 吞下中毒。

Ingestion: Poisoning if swallowed.

下列情况下会危险人员身体健康: 如果与电池内部材料直接接触, 皮肤可能会出现干燥、灼烧等轻微或严重的刺激, 并且损坏靶器官的神经, 肝脏和肾脏。

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to server irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys.

12. 生态学信息 Ecological Information

对哺乳动物的影响: 目前未知。

Mammalian effects: None known at present.

生态毒性: 目前未知。

Eco-toxicity: None known at present.

生物体内积累: 慢慢地生物降解。

Bioaccumulation potential: Slowly Bio-degradable.

环境危害: 目前没有已知的环境危害。

Environmental fate: None known environmental hazards at present.

13. 废弃处置 Disposal Considerations

禁止焚烧, 或使电池温度超过 70° C, 这种滥用可导致泄漏和/或电池爆炸。应按照相应的地方性法规处理。

Do not incinerate, or subject cells to temperature in excess of 70° C, such abuse can result in loss of seal leakage, and/or cell explosion. Dispose of in accordance with appropriate local regulations.

14. 运输信息

Transport Information

运输类别: 锂离子电池单独运输

Transport: Lithium ion batteries alone transport

运输专用名称: 锂离子电池(包括锂离子聚合物电池)

Proper Shipping Name: Lithium ion batteries (including lithium ion polymer batteries)

UN 编号: UN3480

UN No.: UN3480

运输标签: 锂离子电池操作标签, 第 9 类危险品标签, 仅限货机标签。

Label for conveyance: Li-ion battery handling label, Class 9 hazard label, Cargo aircraft only label.

海洋污染物: 无

Marine pollutant: No

Ems 编号: F-A,S-I

Ems No.: F-A,S-I

包装要求: 货物应遵守 IATA DGR(第 62 版) PI965 第 IB 部分规定或特殊规定 188 海运危险货物规则 (Amdt.39-18) 版, 包括通过 UN38.3 测试。

Packing requirements: The goods shall be complied with the requirements of Section IB of PI965 of 62nd DGR Manual of IATA or special provision 188 of IMDG CODE (Amdt.39-18) Edition, including the passing of the UN38.3 test.

铁路/公路运输危规按照 GB 12268-2012 类项

National regulations for transport land GB 12268-2012

运输类别: 锂离子电池与设备一起包装运输

Transport: Lithium ion batteries packed with equipment transport

运输专用名称: 锂离子电池与设备一起包装(包括锂离子聚合物电池)

Proper Shipping Name: Lithium ion batteries packed with equipment (including lithium ion polymer batteries)

UN 编号: UN3481

UN No.: UN3481

运输标签: 锂离子电池操作标签

Label for conveyance: Li-ion battery handling label

海洋污染物: 无

Marine pollutant: No

Ems 编号: F-A,S-I

Ems No.: F-A,S-I

包装要求: 货物应遵守 IATA DGR(第 62 版) PI966 第 II 部分规定或特殊规定 188 海运危险货物规则 (Amdt.39-18) 版, 包括通过 UN38.3 测试。

Packing requirements: The goods shall be complied with the requirements of Section II of PI966 of 62nd DGR Manual of IATA or special provision 188 of IMDG CODE(Amdt.39-18) Edition, including the passing of the UN38.3 test.

铁路/公路运输危规按照 GB 12268-2012 类项

National regulations for transport land GB 12268-2012

运输类别: 锂离子电池安装在设备中运输

Transport: Lithium ion batteries contained in equipment transport

运输专用名称: 锂离子电池安装在设备中运输(包括锂离子聚合物电池)

Proper Shipping Name: Lithium ion batteries contained in equipment (including lithium ion polymer batteries)

UN 编号: UN3481

UN No.: UN3481

运输标签: 锂离子电池操作标签

Label for conveyance: Li-ion battery handling label.

海洋污染物: 无

Marine pollutant: No

Ems 编号: F-A,S-I

Ems No.: F-A,S-I

包装要求: 货物应遵守 IATA DGR(第 62 版) PI967 第 II 部分规定或特殊规定 188 海运危险货物规则 (Amdt.39-18) 版, 包括通过 UN38.3 测试。

Packing requirements: The goods shall be complied with the requirements of Section II of PI967 of 62nd DGR Manual of IATA or special provision 188 of IMDG CODE(Amdt.39-18) Edition, including the passing of the UN38.3 test.

铁路/公路运输危规按照 GB 12268-2012 类项

National regulations for transport land GB 12268-2012

15. 法规信息 Regulatory Information

法律信息

Law information

《危险物品规则》

《Dangerous Goods Regulations》

《对危险货物运输的有关规定的建议》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《国际海运危险货物规则》

《International Maritime Dangerous Goods》

《危险品安全运输技术指令》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《危险货物分类和品名编号》

《Classification and code of dangerous goods》

《职业安全卫生法》

《Occupational Safety and Health Act》(OSHA)

《有毒物质控制法》

《Toxic Substance Control Act》(TSCA)

《消费产品安全法》

《Consumer Product Safety Act》(CPSA)

《联邦环境污染控制法》

《Federal Environmental Pollution Control Act》(FEPCA)

《石油污染法案》

《The Oil Pollution Act》(OPA)

《超级基金修正案和再授权法案III(302/311/312/313)》

《Superfund Amendments and Reauthorization Act TitleIII (302/311/312/313)》(SARA)

《资源保护及恢复法案》
《Resource Conservation and Recovery Act》(RCRA)
《安全饮用水法》
《Safety Drinking Water Act》(CWA)
《加州 65 提案》
《California Proposition 65》
《美国联邦法规》
《Code of Federal Regulations》(CFR)
根据所有联邦、州和地方法律。
In accordance with all Federal, State and local laws.

16. 其他信息
Other Information

本文件仅对由珠海市嘉德电能科技有限公司生产的电池组有效。上述信息是基于现有的数据信息，在实际应用过程中可能出现其他未预料的情况，其相应信息可能需要修改，我司不承担此项责任。在操作中需根据实际情况作出相应的正确处理。

This file is only effective to those batteries made by Jiade Energy Technology (Zhuhai) Co., Ltd. The above information is given based on the existing data, and other unexpected situations might occur in the actual application process, which means that the corresponding information might need to be modified. Our company will not assume any responsibility for this kind of situation, which means that it is necessary to make corresponding correct handling based on the actual situation in real operation.