

**LED Emergency Driver Ballast and Battery Backup Power Kit**

Website:<https://www.szkv.com>



## About Us

Shenzhen KVD Technology is a integrated factory of R&D, Production and sales LED Emergency Battery Backup and drivers conversion kit. The company is located in Shenzhen City of Guangdong Province. At present, the company covers an area of 1000 squares meters with approximately 100 staffs.

### Factory Building Hall



### Factory Frontgate



**ABOUT US**

**Be First, Do it right, Work Smart**



## About Us

Since we began in 2008, KVD's initial focus was on the design and manufacturer of IC components for the lighting industry. The KVD IC accessories for LED lighting gained a lot recognition from domestic factories in China.

In 2010, KVD's product line has expanded to include AC/DC power inverter and battery packs used in industrial, underground garage, hospital and retail store markets. From the circuit board to the completed unit, we at KVD research and design all the things by ourselves.

Our products have been sold to mainland China of LED lighting factories, South America, Europe, Israel, South Africa, East South and Australia markets, and with many big lighting application enterprises at home and abroad to establish a long-term and stable cooperative partnership.

**ABOUT US**

**Be First, Do it right, Work Smart**



## Customers

- Israel
- South Africa
- East South Asia
- Australia
- North America
- South America
- Europe
- 



**ABOUT US**

**Be First, Do it right, Work Smart**



# About Us

## 13 Years Experience in Led Emergency Lighting industry



**ABOUT US Be First, Do it right, Work Smart**



## Culture



Business Philosophy:

More Value for clients, More profits for enterprise, More benefits for employees.

Enterprise Spirit:

Teamwork ▪ Innovation ▪ Integrity ▪ Gratitude

Corporate Culture:

People Orientation, Continuous Improvement, Pragmatic Innovation, Pursuit of Excellence

**ABOUT US**

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Facility



Wave Soldering Machine



Chip Mounter Machine



Battery welding machine



Battery welding machine



Burn-in Cable Tray

Facility

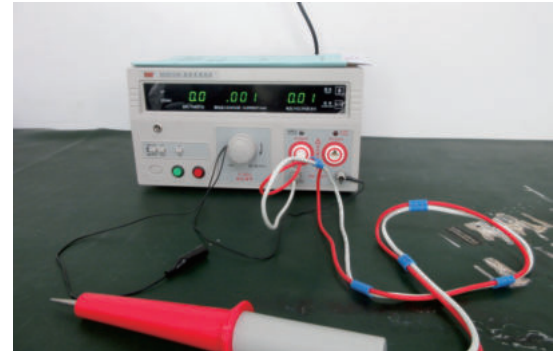
Be First, Do it right, Work Smart



Facility



Multi-channel temperature inspector



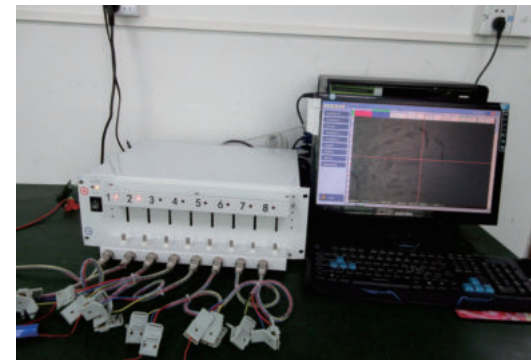
Hi-pot Tester



Power load instrument



Power Meter



Battery Grading systems

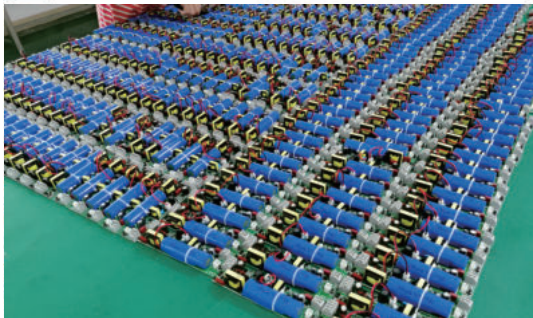
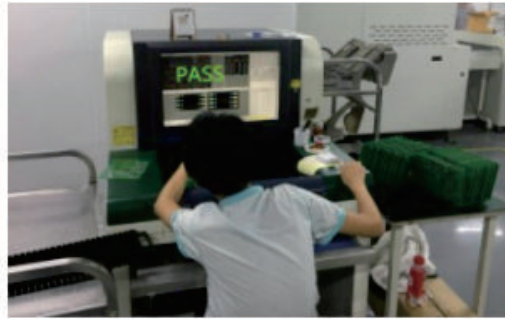
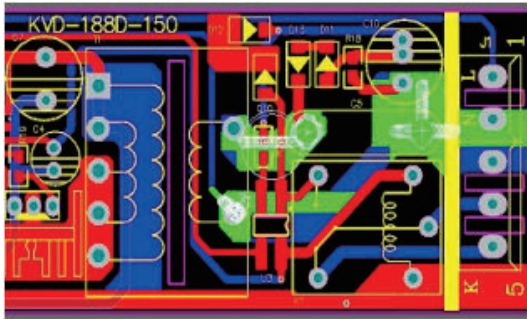
Facility

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*Production  
Process*

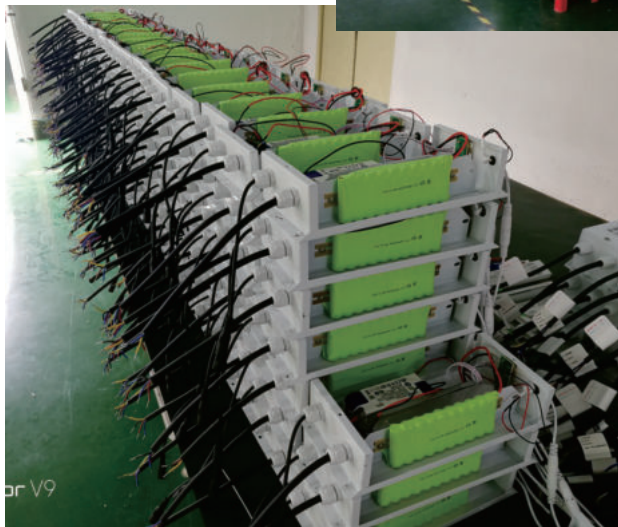
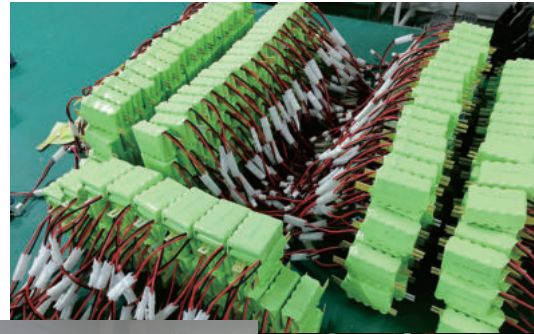


**Production Process**

**Be First, Do it right, Work Smart**



*Assembly  
Line*



**Assembly Line**

**Be First, Do it right, Work Smart**



# Usage Scenario



Emergency Lighting Device has become a indispensable part for any home and public construction.

# Usage Scenario

# Be First, Do it right, Work Smart

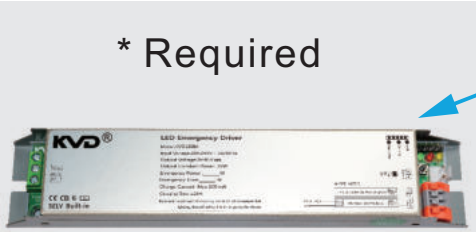
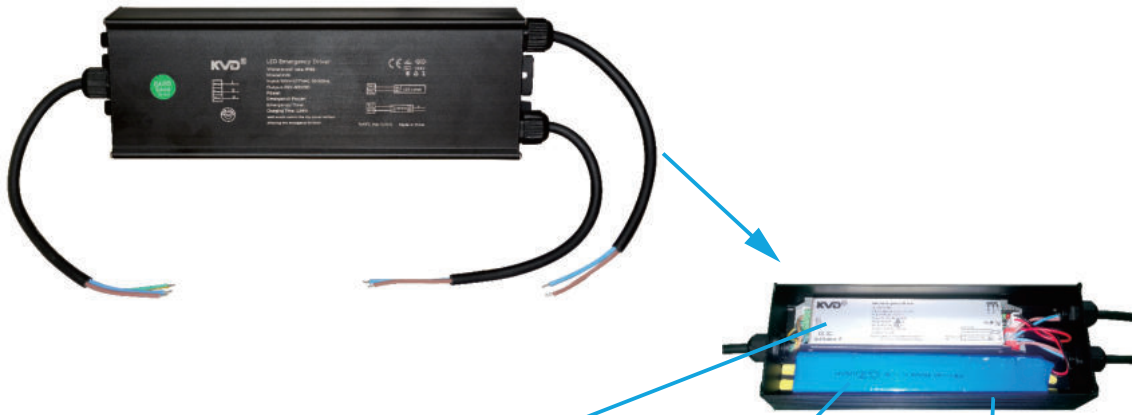
**What is Emergency Conversion  
Kit and how it works:**





**What  
and  
how**

# What does the emergency conversion Kit consist of?



Emergency Inverters



Batteru Pack



Accessory:Box

**What and how**

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## What and how



1 →

When the emergency drive battery kit is connected to an AC power source,  
Indicator light - bright green - shows power is on  
Indicator light - bright red - showing that it is charging  
Indicator light - bright yellow - indicates fault  
It takes 24 to 48 hours to charge according to different battery capacity.

2 →

The emergency driver will convert battery pack power as the source power of the LED light within 0.1 seconds when the main power is disrupted, converting existing luminaries into emergency ones.

3 →

The conversion kit can be adjusted at different emergency power levels and on different emergency duration times, providing a best emergency performance in special condition.

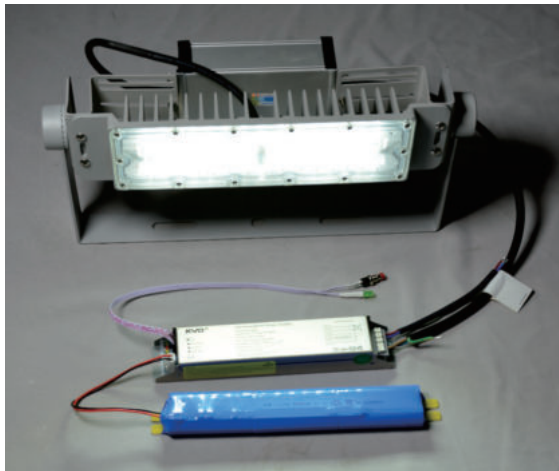
4 →

Each emergency ballast and battery backup power kit is needed to work with the existing LED drivers to convert the lighting fixture into an emergency one.

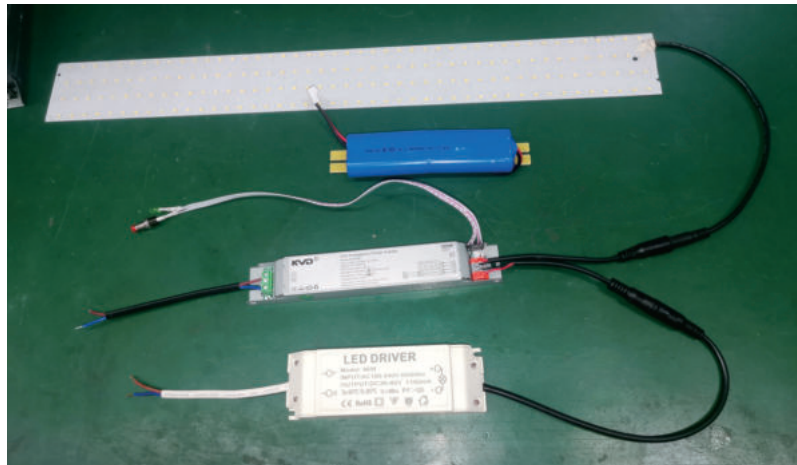
## Installation

The emergency conversion module can be easily integrated to the normal LED lighting fixtures lamp in energy-saving power or 100% full light power outp

For example, flexible adjustable emergency output power/ emergency backup duration time etc.



100% emergency power



energy-saving power solution



## *Operation Types*

### ***Maintained Wiring***

In a maintained operation the lamp of an emergency luminary stays on constantly at all times and stays lit for the minimum emergency duration after a failure of the main power.

#### **Conclusion:**

The lamp can light all the time whether the main is present or not.

### ***Non-Maintained Wiring***

In non-maintained operation, the lamp of an emergency luminary will only light in the event of a mains failure and will stay lit for the minimum emergency duration required.

#### **Conclusion:**

The lamp only lit on when the power off





## Product Catagory

### Emergency Module Product Catagory

#### UL Emergency Led Driver Ballast

- UFO Lightings Emergency Led Driver
- High Bay Light Emergency LED Driver
- Panel Light Emergency LED Driver
- Downlight Emergency LED Driver
- Emergency LED driver

#### Reduce Power Emergency Driver

- Emergency LED driver output power 3W
- Emergency LED driver output power 4W 6W 8W
- Emergency LED driver output power 3W to 15W
- Emergency LED driver output power 10W to 22W
- Emergency LED driver output power 20W to 45W

#### Full Power Emergency Driver LED

- Emergency LED driver For 5W-30W Lights
- Emergency LED driver For 30W-60W Lights
- Emergency LED driver For 50W-150W Lights

#### Emergency Conversion Kits

- Emergency Light Battery
- Emergency Light Ballast

#### Constant Voltage Emergency kit

- DC24V 36V Constant Voltage Emergency Kit
- DC120V Constant Voltage Emergency Kit

#### Emergency Light Solution

- Emergency light

#### Other Led emergency coversion kit

- Emergency Installation Diagram
- Emergency Drive Dimension Drawing
- High Temperature Battery Pack
- Ip65 Waterproof LED Emergency Driver
- Explosion-Proof LED emergency module



## Constant Current Emergency Module

Energy-saving emergency solution mainly used for LED Panel Light, LED Ceiling Light, LED Downlight, and much more...

100% emergency power solution mainly used for LED Tube and LED Bulb.



Energy-saving emergency power for 10w-70w light



Energy-saving emergency power for 30w-300w light



100% emergency power for LED Tube/ Bulb

**Our Products**

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## Emergency Module Wiht Orter Box Kit

Each emergency ballast/driver with battery backup pack power can be stored into an outer aluminum/ iron box.



Aluminum Housing



Aluminum Housing



Aluminum Housing

Different size battery pack use different box

**Our Products**

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## Other Special Emergency Conversion Kit

### High-Temperature Battery Pack



Li-ion Battery Pack



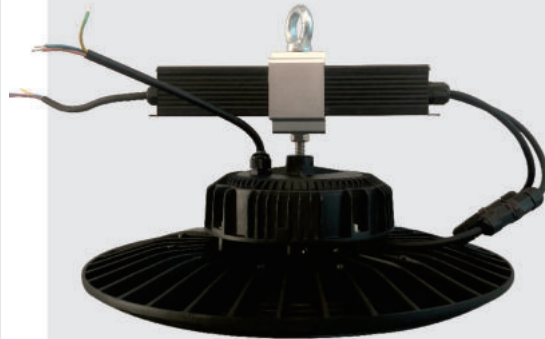
LiFeP04 Battery Pack



Ni Battery Pack



Waterproof IP65 Emergency Kit



Emergency Battery For UFO High Bay Light



Emergency Battery For light strip

**Our Products**

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Honors

Our products meet  
UL, CB, CE standards

**CERTIFICATE OF COMPLIANCE**

**Certificate Number:** UL-CA-2213273-0  
**Report Reference:** ES24059-20220331  
**Date:** 5-Apr-2022  
**Issued to:** SHENZHEN KANG YUAN OF TECHNOLOGY CO.,LTD  
 3rd Floor, Building 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu, Hejing Community, Futai Sub-District, Bao'an District Shenzhen, Guangdong 518100, China

This is to certify that representative samples of FTBR - Emergency Lighting and Power Equipment Certified for Canada See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

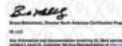
**Standard(s) for Safety:** CSA C22.2 NO. 141-15, 5th Ed., Issue Date: 2015-06-01

**Additional Information:** See the UL Online Certifications Directory at <https://ul.sprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



**CERTIFICATE OF COMPLIANCE**

**Certificate Number:** UL-US-2213930-1  
**Report Reference:** ES24059-20220331  
**Date:** 5-Apr-2022  
**Issued to:** SHENZHEN KANG YUAN OF TECHNOLOGY CO.,LTD  
 3rd Floor, Building 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu, Hejing Community, Futai Sub-District, Bao'an District Shenzhen, Guangdong 518100, China

This is to certify that representative samples of FTBR - Emergency Lighting and Power Equipment See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

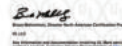
**Standard(s) for Safety:** UL 924, 10th Ed., Issue Date: 2016-05-09, Revision Date: 2020-05-05

**Additional Information:** See the UL Online Certifications Directory at <https://ul.sprospector.com> for additional information

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Look for the UL Certification Mark on the product.



IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

Ref. Cert. No.: SE 2-015317

### CB TEST CERTIFICATE

**Product:** LED Emergency Driver

**Name and address of the applicant:** SHENZHEN KANG YUAN OF TECHNOLOGY CO.,LTD  
 3rd Floor, Building 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu, Hejing Community, Futai Sub-District, Bao'an District Shenzhen, Guangdong 518100, China

**Name and address of the manufacturer:** SHENZHEN KANG YUAN OF TECHNOLOGY CO.,LTD  
 3rd Floor, Building 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu, Hejing Community, Futai Sub-District, Bao'an District Shenzhen, Guangdong 518100, China

**Name and address of the factory:** SHENZHEN KANG YUAN OF TECHNOLOGY CO.,LTD  
 3rd Floor, Building 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu, Hejing Community, Futai Sub-District, Bao'an District Shenzhen, Guangdong 518100, China

**Rating and principal characteristics:** LED EMERGENCY LIGHTING POWER SUPPLY  
 CB CLASS: 0-220V, 50/60 Hz (SEE REPORT)

**Trademark if any:** KVD

**Customer's Training Facility (CTF) Design used:** N/A

**Model / Type Ref.:** KVD18BD-EM150

**Additional information (if necessary refer also to report on page 2):** SEE UL-2213930-1

**A sample of the product was tested and found to be in conformity with:** IEC 60846-1:2015 (M) IEC 61083-1:2015 (M)

**An address in the Test Report Ref. No. which forms part of this Certificate:** SEE REPORT

This CB Test Certificate is issued by the National Certification Body:

**TÜVRheinland**

**Signature:** [Signature]

**Date:** 2022-04-23

### CERTIFICATE of Conformity

EC Council Directive 2014/30/EU  
Electromagnetic Compatibility

**Registration No.:** AE 50512686 0001  
**Report No.:** NN20ESTB 001

**Holder:** Shenzhen KANG YUAN OF Technology Co., Ltd  
 3F, Bldg 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu Hejing Community, Futai Dist, Bao'an Dist, Shenzhen 518000, Guangdong P.R. China

**Product:** Emergency Resurrection Device LED Emergency Driver

**Identification:** Type Designation: ESD1648 EDS1897 EDS1898 ESD1894  
 Model No.: S.A.  
 Remark: Refer to above-linked test report for details.

**Tested acc. to:** EN 55015:2012/AM3  
 EN 61347-2:2015  
 EN 61800-3:2015  
 EN 61800-3-2:2015-01

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use the certificate in connection with the EC declaration of conformity according to the a.s. Directive.

**Certification Body:** TÜV Rheinland LGA Products GmbH · Tillystraße 2 · 90431 Nürnberg

**Date:** 23.07.2021

**Signature:** [Signature]

**CE** The CE marking may only be used if all relevant and effective EC Directives are complied with.

### CERTIFICATE of Conformity

Low Voltage Directive 2014/35/EU

**Registration No.:** AN 50509441 0001  
**Report No.:** NN20FZMY 001

**Holder:** Shenzhen KANG YUAN OF Technology Co., Ltd  
 3F, Bldg 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu Hejing Community, Futai Dist, Bao'an Dist, Shenzhen 518000, Guangdong P.R. China

**Product:** Emergency Resurrection Device LED Emergency Driver

**Identification:** Type Designation: ESD1648 EDS1897 EDS1898 ESD1894  
 Model No.: S.A.  
 Remark: Refer to test report 2022FZMY 001. See details.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex I of the Directive.

**Certification Body:** TÜV Rheinland LGA Products GmbH · Tillystraße 2 · 90431 Nürnberg

**Date:** 16.07.2021

**Signature:** [Signature]

**CE** The CE marking may be used if all relevant and effective EC Directives are complied with.

### BCTC Test Verification of Conformity

Verification Number: BCTC210438667C

**Applicant:** Shenzhen KANG YUAN OF Technology Co., Ltd.  
 3rd Floor, Building 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu, Hejing Community, Futai Sub-District, Bao'an District, Shenzhen, China

**Manufacturer:** Shenzhen KANG YUAN OF Technology Co., Ltd.  
 3rd Floor, Building 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu, Hejing Community, Futai Sub-District, Bao'an District, Shenzhen, China

**Product:** LED Emergency power supply

**Trademark:** KVD

**Model/Type reference:** KVD18BD-EM150

**Report number:** BCTC210438667E

**Test Standard:** EN 60815:2019/EN 61030:2019, EN 61547:2009  
 EN IEC 61000-3-2:2019, EN 61000-3-2:2013/AM1:2019

On the basis of the referenced test report(s), sample(s) tested of the above product have been found to comply with the standards harmonized with Annex I of Council Directive 2014/30/EU at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it (them).

Once compliance with all product relevant CE mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

**RoHS**

**Signature:** [Signature]

**Date:** 16.07.2021

**Signature:** [Signature]

**CE** The CE marking may be used if all relevant and effective EC Directives are complied with.

### BCTC Test Verification of Conformity

Verification Number: BCTC2104387332C

**Applicant:** Shenzhen KANG YUAN OF Technology Co., Ltd.  
 3rd Floor, Building 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu, Hejing Community, Futai Sub-District, Bao'an District, Shenzhen

**Manufacturer:** Shenzhen KANG YUAN OF Technology Co., Ltd.  
 3rd Floor, Building 12, Jincheng Hejing Industrial Park, No. 87, Hexiuxu, Hejing Community, Futai Sub-District, Bao'an District, Shenzhen

**Product Name:** LED Emergency power supply

**Product Type:** KVD18BD-EM150

**Trademark:** KVD

**Test Standard:** IEC 62321-1-1:2015, IEC 62321-4:2015, IEC 62321-3:2013/AM1:2017, IEC 62321-1:2015, IEC 62321-2:2017, IEC 62321-4:2015, IEC 62321-8:2017

The EUT described above has been consolidated by us and found in compliance with the council RoHS directive 2011/65/EU and amendment Commission Delegated Directive (EU)2015/863. This verification is only valid for the test results in this report number: BCTC2104387332C.

**RoHS**

**Signature:** [Signature]

**Date:** 16.07.2021

**Signature:** [Signature]

**CE** The CE marking may be used if all relevant and effective EC Directives are complied with.

Honors

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Honors

We have: air, sea, MSDS, UN38.3

**危险物品**  
DANGEROUS GOODS

**航空运输条件鉴别报告书**  
Identification and Classification Report for Air Transport of Goods

报告编号: PK07202112232604YX210001  
Issued No.: PK07202112232604YX210001

生效日期: 2022.01.01  
Effective Date: 2022.01.01

委托单位: 深圳市康元达科技有限公司  
Applicant: Shenzhen Kangyuanda Technology Co., Ltd.

物品名称: 锂离子电池 100 Li-Ion 18650-6.4V 1500mAh 9.6Wh  
Name of Goods: Li-Ion Battery Pack 100 Li-Ion 18650-6.4V 1500mAh 9.6Wh

北京迪德姆空运技术开发有限公司  
Beijing DDM Air Transport Technology Development Co., Ltd.

第 1 页 共 4 页

**海运货物运输条件鉴定书**  
Identification and Classification Report for Maritime Transport of Goods

非限制性货物  
Not subject to the regulation(s)

货物样品名称: 锂离子电池KVD Li-Ion 18650-6.4V 1500mAh 9.6Wh  
Name of Goods (Sample): Li-Ion Battery Pack KVD Li-Ion 18650-6.4V 1500mAh 9.6Wh

报告编号: 220106040201-22  
SN of Report: 220106040201-22

委托方: 深圳市康元达科技有限公司  
Client: Shenzhen Kangyuanda Technology Co., Ltd.

委托日期: 2022年01月06日  
Date of Entrustment: 2022年01月06日

有效期至: 2022年12月31日  
Date of Expiry: 2022年12月31日

诺诚(深圳)安全技术有限公司  
NRCC (Shenzhen) Safety Technology Co., Ltd.  
(应急管理危险化学品道路运输条件下检测检验机构)  
(Testing and Inspection Body affiliated to the National Registration Center for Chemicals (NRCC))

**MSDS Report**

Prepared For: 客户  
Product Name: Li-Ion Battery Pack  
Model 型号: KVD Li-Ion 18650-6.4V 1500mAh 9.6Wh  
Nominal Voltage: 6.4V  
Typical Capacity: 1500mAh 9.6Wh  
Weight 重量: 94.2g  
Dimension 尺寸: 96.6mm X 37.5mm X 20.5mm (L x W x H)

Prepared By: 编制单位  
Report No: NCT2104040503M-1

Written by: Vera L. Approved by: [Signature]  
Inspected by: Hedy Wang. Date 日期: [Signature]

**UN38.3 检测报告**  
UN38.3 Test Report

Client: Shenzhen Kangyuanda Technology Co., Ltd.  
Add. of Client: 3rd Floor, Building 12, Anhuangcheng Industrial Park, Hehai, Xihu No.87, Heping Community, Fuhai Street, Bao'an District, Shenzhen  
Sample Description: Li-Ion Battery Pack  
Model/Type 型号/规格: KVD Li-Ion 18650-6.4V 1500mAh 9.6Wh  
Testing Laboratory 测试机构: Shenzhen NCT Testing Technology Co., Ltd.  
Report No: NCT2104040503M-1  
Issued Date: 2022.01.11  
Test Conclusion: 符合UN38.3 运输条件鉴别报告, 无限制航空运输。

Tested by: Vera L. Approved by: [Signature]  
Inspected by: Hedy Wang. Date of Issue: 2022.01.11

**1.2M 跌落测试报告**  
1.2M Drop Test Report

Client: Shenzhen Kangyuanda Technology Co., Ltd.  
Add. of Client: 3rd Floor, Building 12, Anhuangcheng Industrial Park, Hehai, Xihu No.87, Heping Community, Fuhai Street, Bao'an District, Shenzhen  
Sample Description: Li-Ion Battery Pack  
Model/Type 型号/规格: KVD Li-Ion 18650-6.4V 1500mAh 9.6Wh  
Testing Laboratory 测试机构: Shenzhen NCT Testing Technology Co., Ltd.  
Report No: NCT22040301-2  
Issued Date: 2022.03.11  
Test Conclusion: 通过1.2M 跌落测试, 无限制航空运输。

Tested by: Vera L. Approved by: [Signature]  
Inspected by: Hedy Wang. Date of Issue: 2022.03.11

**UN38.3 测试概要**  
UN38.3 Test Summary

Product Name: Li-Ion Battery Pack  
Sample Model: KVD Li-Ion 18650-6.4V 1500mAh 9.6Wh  
Basic parameter 基本参数: 6.4V 1500mAh  
Product Type: Li-Ion battery  
Test Summary: 符合  
Sample Physical Characteristics: Silver, Plastic, Solid  
Client: Shenzhen Kangyuanda Technology Co., Ltd.  
Factory Address: 3rd Floor, Building 12, Anhuangcheng Industrial Park, Hehai, Xihu No.87, Heping Community, Fuhai Street, Bao'an District, Shenzhen  
Manufacturer: Shenzhen Kangyuanda Technology Co., Ltd.  
Phone number: +86 18628768888  
Email address: Jvd@kvd.com

Honors

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*Good  
Vision*

**KVD will continue adopting high level manufacturing methods to create the best quality LED emergency driver and battery backup power kit. Meanwhile, the KVD research and design department will bring more innovative and reliable products to the emergency lighting industry.**

**We look forward to working with powerful enterprises to bring KVD qualified products to the whole world, and let everyone enjoy a bright future.**

**KVD emergency conversion kit will not let leave you alone in darkness.**



**Good Vision**

**Be First, Do it right, Work Smart**

*THANK YOU!*

## **KVDTechnology**

Address:3rd Floor, Building 12,Jincheng  
Hejing Industrial Park,No. 86, Hexiuxilu,  
Heping Community,Fuhai Sub-District,  
Bao'an District, Shenzhen

Email:info@szkvd.com

Skype:18926768556@126.com

Whats:+86 189 2676 8556

Website:<https://www.szkvd.com>

