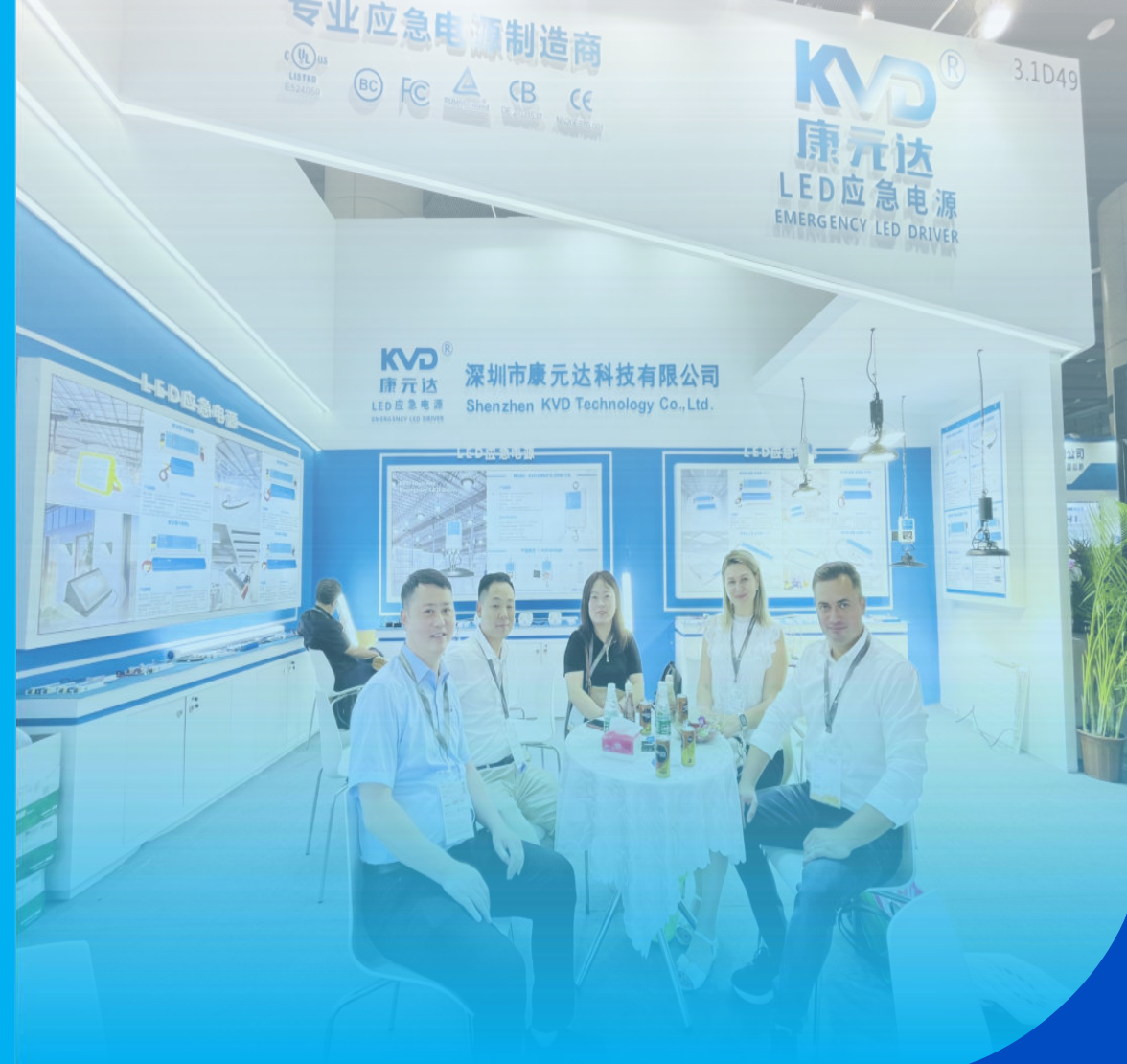




Shenzhen KANG YUAN of Technology Co., Ltd.

**Specialising in LED Lighting Series Emergency
Driver – KVD is Your Preferred Choice**



www.szkv.com



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01

BRAND IMAGE





Shenzhen Factory Building



Zhongsan Agent



Europe - Romania Agent



Company Profile

Since our establishment in 2008, we have consistently specialised in the field of emergency driver for LED lighting fixtures. 16 years of unwavering technical dedication have forged our core competitiveness in the research, development, and production of emergency power solutions. Grounded in expertise, guided by energy efficiency, and committed to reliability, we are dedicated to providing global clients with cutting-edge emergency power solutions compatible with diverse LED lighting systems. We ensure safety and efficiency remain constant companions.





Business Team One



R&D Department



Laboratory



Business Team Two



Inspections Pending Area



Shipments Pending Area



Workshop Corner

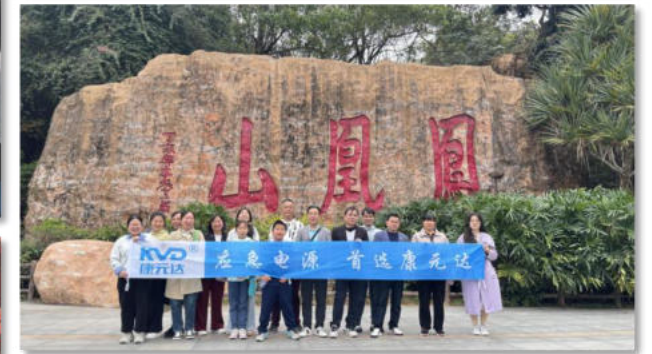


Ageing Chamber One



Ageing Chamber Two





Product Certification System

Our products have obtained international authoritative certifications including CE, CB, UL, FCC, SAA, and UKCA, establishing a safety compliance network spanning global markets. These accreditations serve not only as authoritative quality credentials but also as tangible manifestations of our commitment to customers—ensuring every product embodies safety standards and every collaboration conveys the value of trust.

International Transport Safety Certification System

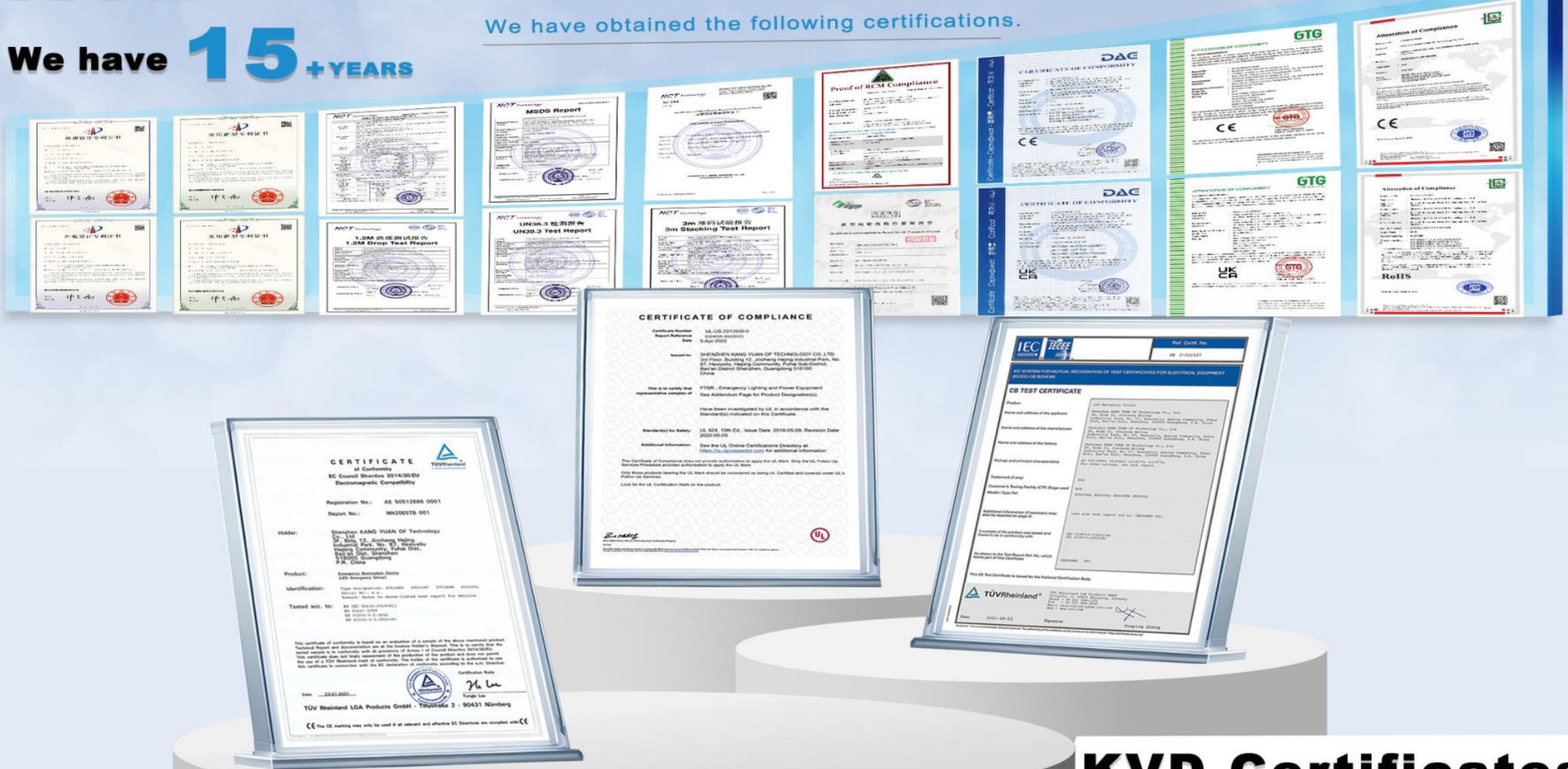
Our products have attained dual international certification through MSDS (Material Safety Data Sheets) and UN38.3 (Lithium Battery Transport Safety Testing), fully complying with transport regulations set by international organisations such as IATA and IMO. This certification system ensures our products maintain the highest safety standards throughout cross-border transportation, providing reliable logistics assurance for global customers.





We have **15** + YEARS

We have obtained the following certifications.



KVD Certificates

02 | INNOVATION JOURNEY

In response to market demand, we have entered the emergency lighting sector and launched the KVD188D , initiating independent research, development and production.

2012 YEAR

Strengthen marketing efforts at international lighting exhibitions, increase investment in research and development alongside new product launches, drive technological advancement, and introduce the ultra-slim emergency solution KVD188T.

2016 YEAR

Secured TÜV, CB and CE certifications, whilst launching new North American products: KVD-EM-XXW-170 with UL certification. Continued active participation in international lighting exhibitions, achieving a 20% year-on-year increase in annual turnover.

2020 YEAR

2008 YEAR

The company has been formally established, representing IC brands while concurrently providing MCU technical solutions.

2014 YEAR

The company upgraded its organisational structure, establishing an integrated model encompassing R&D, production and sales while advancing exhibition marketing. It obtained CE certification and launched the new KVD188M product in the same year.

2018 YEAR

Continued participation in international lighting exhibitions, advancing certifications including TÜV, CE, and CB Established European agents in the same year, achieving a 30% year-on-year increase in annual turnover Launched the new product KVD188L

2022 YEAR

Successfully obtained UL certification, expanded promotional efforts at international lighting exhibitions, achieved a 30% year-on-year increase in annual turnover, and maintained continuous investment in research and development.

KVD188T has obtained Australian SAA-RCM certification; in the same year, increased investment in North American UL certification was made, alongside participation in the Hong Kong Fair and CNLL, while continuing to cultivate the GILE.

2023 YEAR

New products KVD188C and KVD188S have commenced certification processes for TUV-CB and SAA-RCM, targeting expansion into European and Australian markets. Continued promotion will be undertaken at international lighting exhibitions in Ningbo, Hong Kong, and Guangzhou, alongside establishing an agency in Zhongshan, the Lighting Capital.

2025 YEAR

Following the completion of the agent deployment, further improvements will be made to local warehousing facilities and after-sales service.

2029 YEAR

2024 YEAR

The new KVD-SM-XXW-YYY product has obtained UL certification. We have maintained a strong presence at the Hong Kong Lighting Fair and CNLL, while continuing to deepen our engagement at the GILE. Annual turnover has increased by 30% year-on-year.

2027 YEAR

The company has established comprehensive certification systems including UL, CSA, CB, CE, UKCA, and SAA-RCM, and will expand its regional agency network to cover markets across Europe, Australia, the Middle East, South America, and North America.



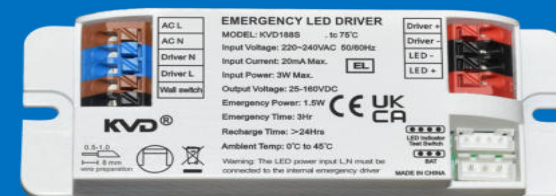
Compatibility :0-10V/
SCR /DOB(linear) lamps



New energy-saving, high-efficiency
emergency drive
with broad compatibility range



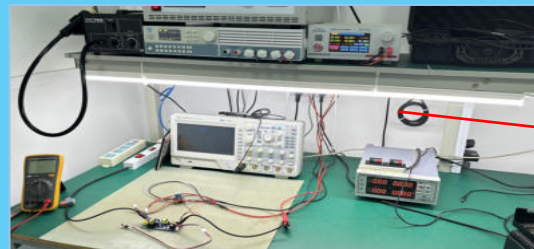
The new product offers broad
compatibility, Small Size, intelligent
switching.



New product (pure AC sine wave output:
120V and 277V available)



Breakthrough in battery terminal static
current to 0 milliamps



0 milliampere data



We have obtained: invention patents, utility model patents, and design patents.



Obtained in 2022

CE-UKCA UK Market Certi.



Obtained in 2023

Australia RCM-SAA Certi.



updated annually

International Air and Sea Freight Qualifications



Obtained in 2022

North America UL Certi.



Obtained in 2020

TUV-CE-CB Certi.



Testing standards cover:

- UL924: CSA C22.2 NO. 141-15;
- TUV: TUV-CB:61347 / TUV-CE-55015 / 61547 / 61000;
- RCM: AS 61347.2.7:2019 & AS/NZS 61347.1:2016 + A1。

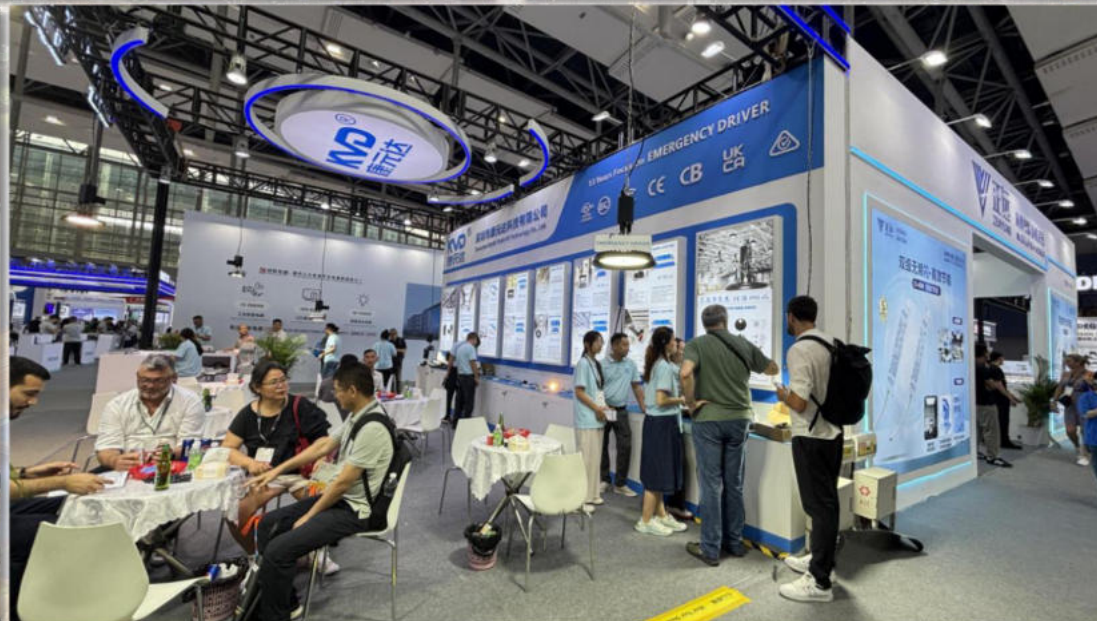
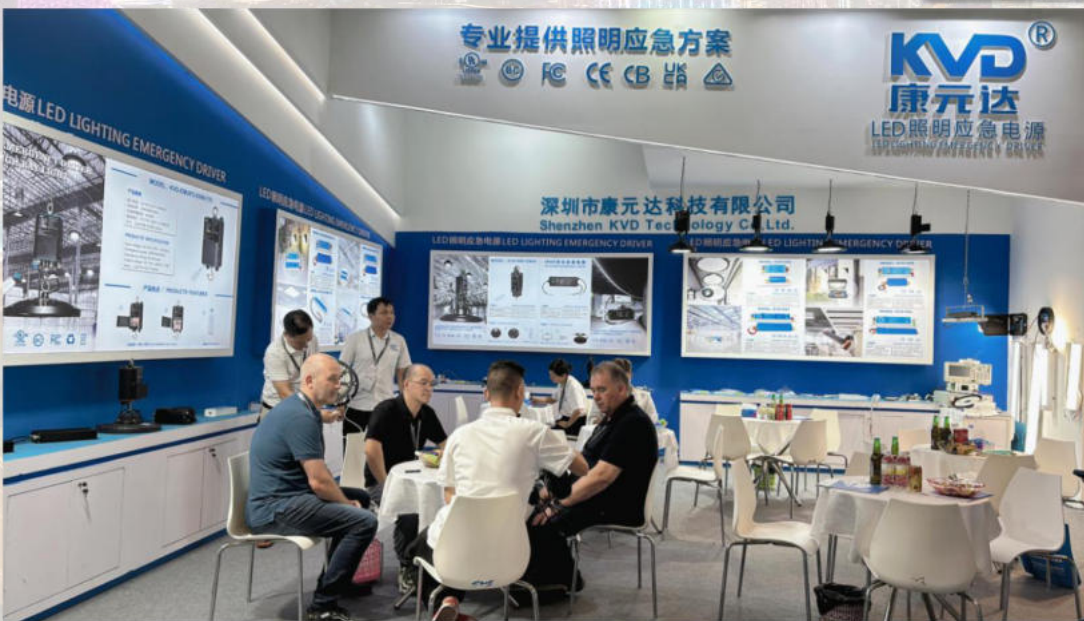
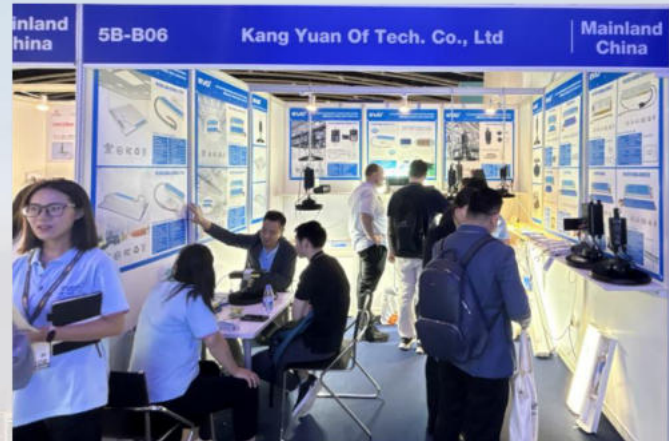


Market share

● China	30%
● Europe	15%
● North America	10%
● Middle East	10%
● Australia	10%
● South America	10%
● Africa	5%
● Asia	10%

OUR PRODUCTS ARE SOLD IN OVER 10 COUNTRIES:

Australia,England,Germany,Italy,Romania,Qatar, the Middle East,Russia,South Africa,America,Canada, Brazil,Chile, Peru,etc.



03

QUALITY SYSTEM



质量管理体系: GB/T 19001-2016/ISO 9001:2015

01

Design Quality Management Planning

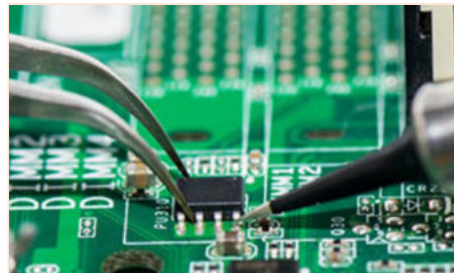
- Quality Contract Review
- Design Review
- DQE Validation
- NPI Trial Production
- ECN/ECR Management
- SOP/SIP



02

Quality Prevention Planning for Mass Production

- Material Inspection
- Process Design
- QCP Management
- First Pass Yield Management
- Reliability Testing



03

Mass Production Traceability System Planning

IMS system

SMT → AI → DIP insertion →

Assembly → Ageing →

Packaging



04

Mass Production Interception System Planning

- IQC Inspection
- In-line Full Inspection
- FAI Inspection
- In-line Patrol Inspection
- Final QA Inspection



R&D Team



Quality team

The company maintains a dedicated quality management team whose core responsibilities encompass formulating quality management strategies and objectives, designing and developing quality control systems for products, and ensuring production processes strictly adhere to standard requirements..

Sales Team

Precisely aligning with client requirements, crafting bespoke solutions, providing end-to-end collaboration support, and coordinating internal service safeguards to empower clients and the company to achieve mutual success.

After-Sales Team

Promptly addressing customer enquiries, efficiently resolving usage issues, continuously monitoring service quality, and safeguarding the customer experience.



Surge Voltage Tester



High Voltage Test Equipment



Load Tester



Isolated AC Power Supply



Digital Bridge



Load Tester



Isolated AC Power Supply



Oscilloscope



Simulated Battery



Oscilloscope





Opt for battery cells from reputable major corporations, Quality foundations are more solid



Li-ion battery-
18650



Li-ion battery-32700



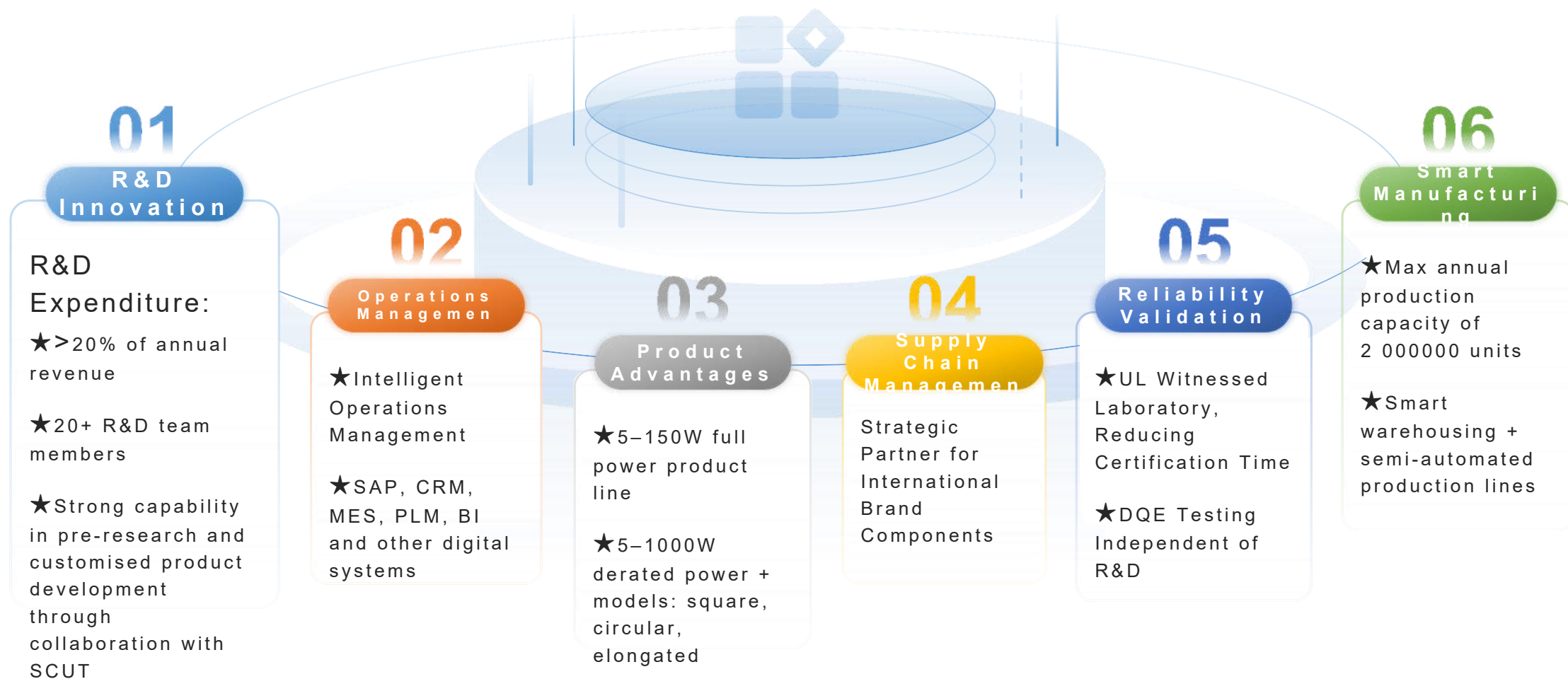
Li-FeP04 battery-
18650



Li-FeP04 battery-26650



Li-FeP04 battery-
32650



04 | SCENE SOLUTIONS



➤ Market Focus

Power range: 5–320W



Outdoor Lighting



Industrial Lighting



Commercial Lighting



Horticultural Lighting



Sports Lighting



**Indoor**

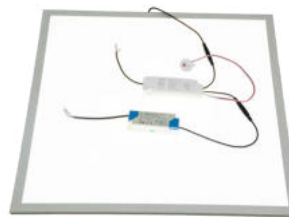
Suitable for a variety of lights



Tri-Proof light



Linear light



Panel light



Downlight



Ceiling light

Outdoor

Suitable for a variety of lights



High bay lamp



Gas station lamp



Canopy light



Explosion proof light



Wall light



Tunnel in Madrid, Spain:KVD188D



**PA Pennsylvania -
Warehouse: KVD-EM-XXW-
170**



**Los Angeles 2028 Olympic
Games:
KVD-EMUFO-XXW-170**



**HK University Project
renovation: KVD188D**



**Dongjin Century City - Car
Park:KVD188D**



**Swedish Mine
Engineering:KVD188P50**



**New South Wales, Australia:
KVD-188T**



**Large-scale cold storage
facility in Riyadh, Saudi
Arabia: KVD188G-EM30**



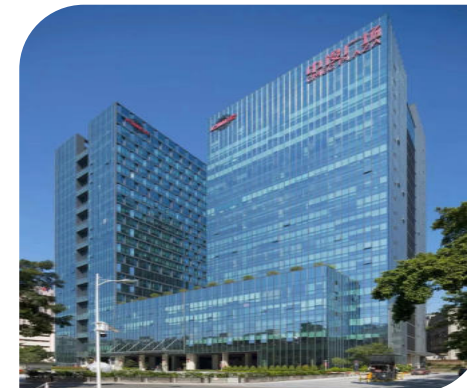
First People's Hospital: KVD188M



**New World - Garage:
KVD188D**



Real estate Building: KVD188D



**Square Architecture:
KVD188M**



Factory conversion: KVD188M



**Commercial Centre:
KVD188D**



**The Chinese University of Hong
Kong: KVD188D**



**Pacific Department Store:
KVD188D**

05

PRODUCT MATRIX

Robust Performance - Enduring Protection



Full-power emergency

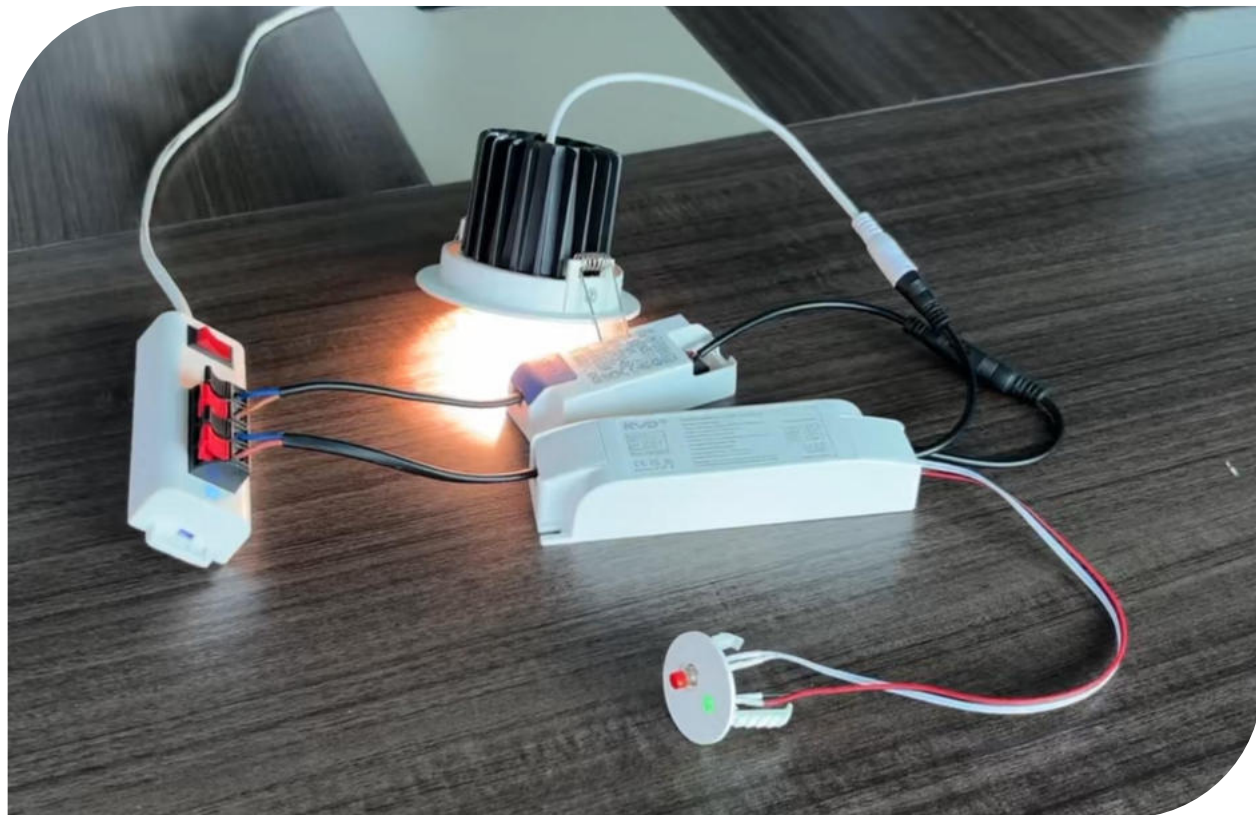
KVD188D Series Full-Power Emergency Output, delivers full-power operation for LED constant-current drivers, compatible with 5W to 150W. Provides continuous operation for 1.5-3h. using high-quality Li-ion batteries. performance and temperature suitable for industrial and commercial applications.

Emergency Power Reduction

KVD188T, KVD188L and other reduced-power emergency plans are aim to save costs. For instance, a luminaire normally operating at 40W can switch to 3W or 5W during power off, sustaining 1.5-3h or even longer. Small size and low cost, making them widely applicable various luminaire types.

Emergency plan with dimming Function

KVD-EMUFO-XXW-170, KVD-EM-XXW-170 and similar models are compatible with dimmable luminaires and all brands of dimming drivers. Widely used in the North American market.



1

When emergency converter and battery pack connect to the AC power supply, the indicator light :green—the power switch on, green breathing—charging green steady--fully charged green slow flash, during emergency red—battery not connected red rapid flash--no-load protection— Charging requires 24 -48h.

2



Upon interruption of the main power supply, the emergency driver converts battery pack to power the LED lights within 0.1s, transforming existing lamp into emergency lamp.

3



It can be adjusted for different emergency power and duration, delivering optimal emergency performance under special circumstances.

4



Each emergency inverter and battery backup must be compatible with existing LED drivers to convert lighting fixtures into dual-purpose emergency and standard lighting units.



01: Indicator Lights - Multiple Status



Upon connection to mains power--steady green. During charging--green flashes, emergency mode--green flash slowly. faults--the red flash slowly.No-load protection--red flash rapidly. After short-circuit protection activates, the circuit system shuts down after 1s.

2: Self-Test Function - Multiple Self-Test Designs

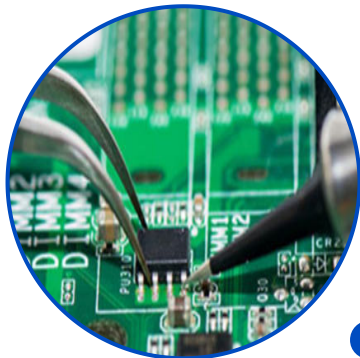


Upon connection to mains power, the emergency kit start timing to weekly, monthly, quarterly, and annual self-tests. The emergency system automatically initiates self-testing procedures, transitioning to charging mode upon completion.

3: Protective Functions - Multiple Protections Designed



Features include no-load, overload, overcharge , over-discharge , and short-circuit protection. Once activates protective functions, mains power must be restored to reactivate normal operation.



Intelligent Energy Saving

KVD's emergency driver employs intelligent MCU control circuits and a multifunctional full-power/reduced-power energy-saving emergency plans. Activating LED emergency lighting for 1-5 h, achieving intelligent energy savings of up to 50%.



Economy and Environmental Protection

Reducing operational costs, minimises energy consumption, aligning with contemporary environmental principles. Creates greater economic and social value for customers.





KVD-SM-XXW-YYY



Emergency Kit with Battery

KVD-KM-XXW-YYY



Emergency Kit with Battery

KVD-LM-XXW-170



Emergency Kit with Dimming Function

KVD-EM-XXW-170



Emergency Kit with Dimming Function

KVD-EMUFO-XXW-170



Emergency Kit with Dimming Function



Wall light Installation effect



Linear light Installation effect



Panel light Installation effect



Industry light Installation effect



UFO High bay lamp Installation effect

KVD188C



Built-in lithium battery
integrated Emergency kit

KVD188S



Split-type compact size
Emergency kit

KVD188T



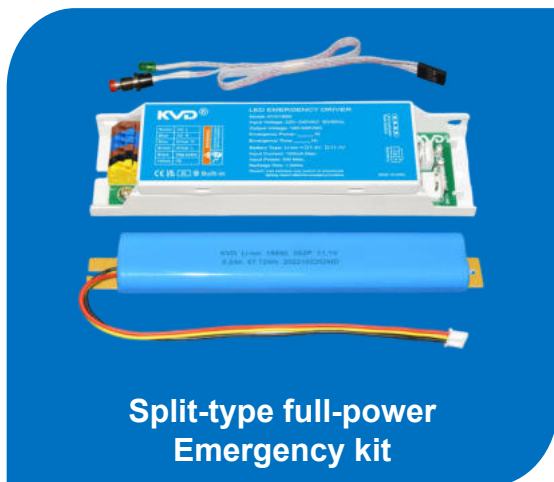
Split-type ultra-thin
Emergency kit

KVD188L



Split-type high-power
Emergency kit

KVD188D



Split-type full-power
Emergency kit

KVD188G



IP65 Emergency kit

KVD188G-EM30



European standard UFO
Emergency kit

KVD188P50



High-voltage light strip
Emergency kit

Smart Emergency Driver-Split-Type Display



Boxed Integrated Solution Showcase



Emergency converter -
Essential



Battery pack -
Essential



Accessories
- Optional

06

WIN-WIN FUTURE

Provide technical support to customers

KVD Corporate Philosophy:

Service forms the bedrock of our existence, quality the very soul of our development, integrity the foundation of our commerce, and collaboration the source of our strength. Pursuing excellence through sustained growth, we ultimately achieve mutual prosperity with our global partners. Aiming to joining hands with you to build a secure, energy-efficient, and sustainable future for lighting.

Whether you are a specialist manufacturer, trading company, or e-commerce platform, KVD delivers bespoke solutions. By choosing us, you gain access to a comprehensive, end-to-end industrial chain service spanning R&D innovation, lean manufacturing, and global sales. Our expertise safeguards your commercial success.





Exhibition Scene



Company Scene



THANKS



The light of wisdom, safeguarding peace of mind

