HAISEN® | HOE®

SMART CONTROL SOLUTION

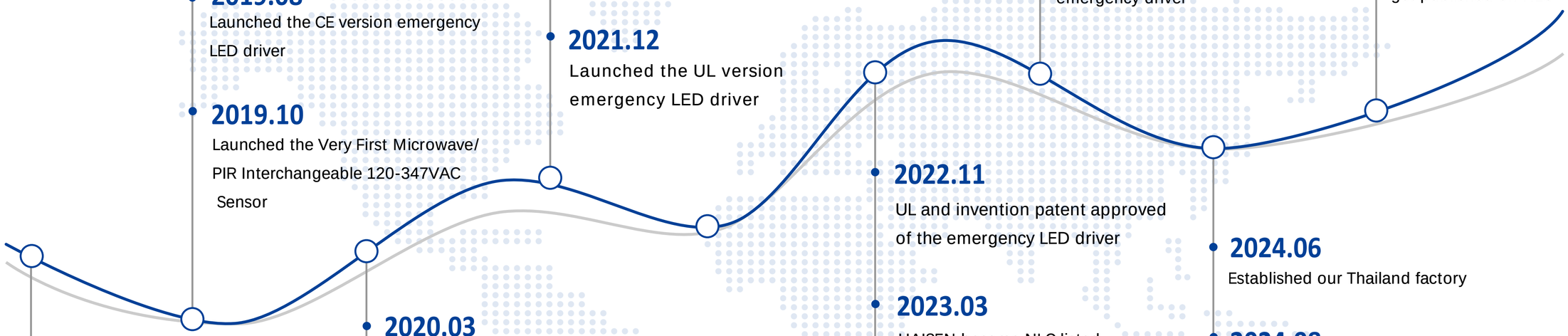
NLC SMART SENSOR CONTROL / SMART EMERGENCY DRIVER /
EMERGENCY LIGHTING (US version)

www.haisensz.com




15: 30
Group 01
Sensor Control
Emergency Driver
Group 01
Dim Level
20W
50%
CCT Tunable
3500K
3000K
3500K
4000K
5000K
Sensor Settings
Device(s)
HSE WISE
LIGHT UP EASE, CONTROL WITH WISE.

OUR GROWTH



2013.03
Established HAISEN factory, Start Developing and Manufacturing Sensor control and drivers

2016.07
Started HAISEN Brand

2018.08
Launched the Very First 12VDC 15M Highbay Sensor in the market and Broke the Tradition

2019.08
Launched the CE version emergency LED driver

2019.10
Launched the Very First Microwave/ PIR Interchangeable 120-347VAC Sensor

2020.03
Started Espiton New Brand and Expanded Our Product Availability to Emergency Driver/ Power Driver

2020.12
Moved to Our Own facility And Office in Songshan Lake of Dongguan City

2021.10
Launched the specially designed 3 in 1 UFO driver,adjustable wattage supply and CCT,with smart sensor connection; Invention patent approved.

2021.12
Launched the UL version emergency LED driver

2022.11
UL and invention patent approved of the emergency LED driver

2023.03
HAISEN became NLC listed manufacturer

2023.06
Emergency Lighting listed on NLC as the very first one in China with patent protected real products and technology.

2023.12
Developed the first 50ft PIR highbay sensor of the whole industry

2024.04
Developed the cold-pack emergency driver

2024.06
Established our Thailand factory

2024.08
Developed our own Bluetooth control system HSE WISE

2024.12
Launched our USA Service Center for local support

2025.02
Presented our exclusive signature product- Emergency UFO highbay

2025.02
HSE WISE control system get published on NLC

ABOUT HAISEN

Established in 2013, HAISEN is a national high-tech enterprise specializing in SENSOR CONTROL and EMERGENCY PRODUCTS. We have been honored as a National "Specialized, Refined, Unique, and Innovative" Enterprise and certified with ISO 9001:2015.

Our China HQ, self-owned industrial park, is located in Dongguan Songhu Intelligent Valley, with total area of 8,000 square meters.

60+
R&D Engineers

100+
Product Patents

300+
People

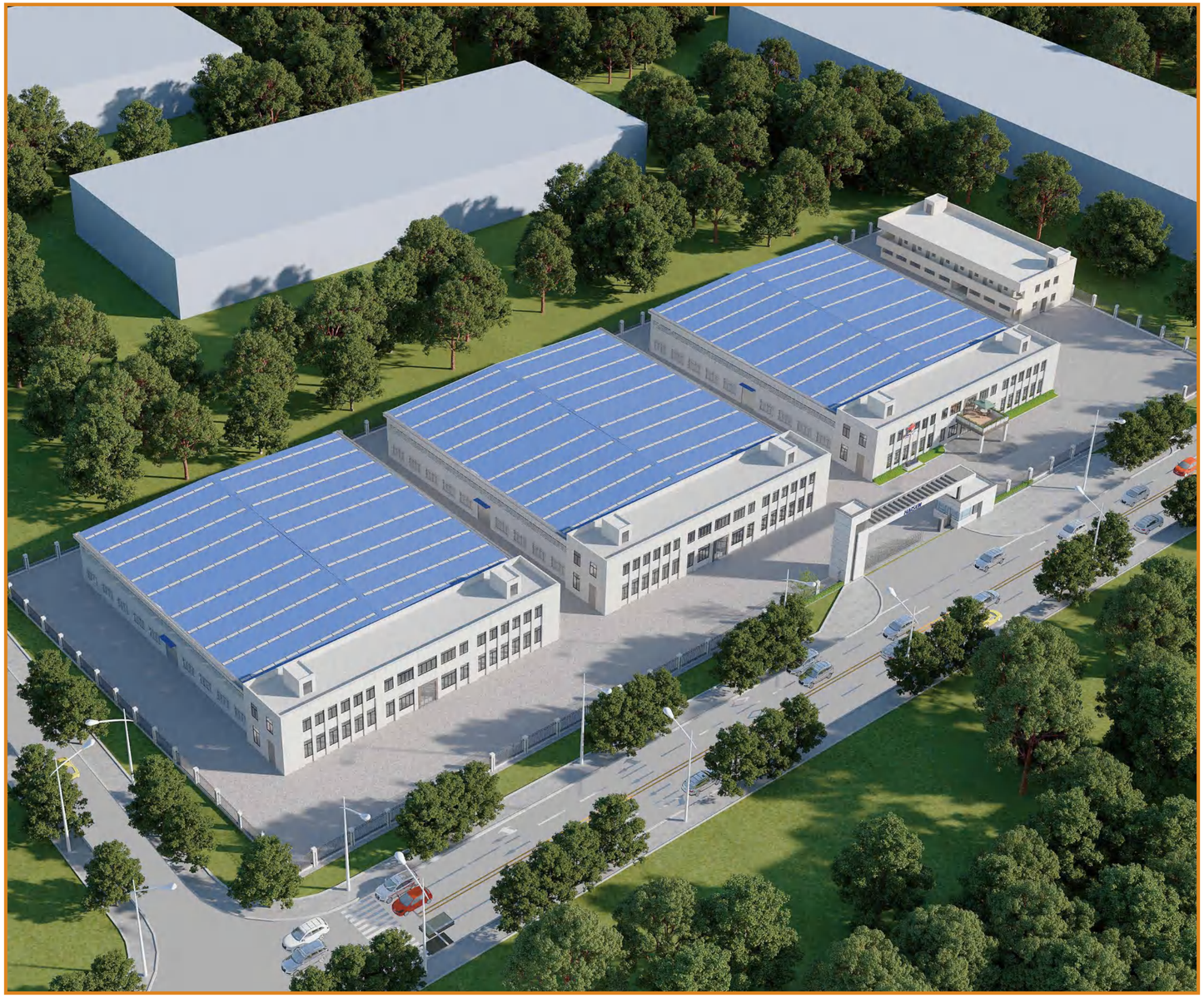












Thailand Factory

Since July 2024

Private Property

Total footage: 180,000 square feet

1 hour (by driving) away from Bangkok airport

2 hours (by driving) away from Bangkok port

182 Moo 5 Na Wang Hin Sub-District,Phanat Nikhom District,Chonburi,Thailand 20240



US SERVICE CENTER & Warehouse

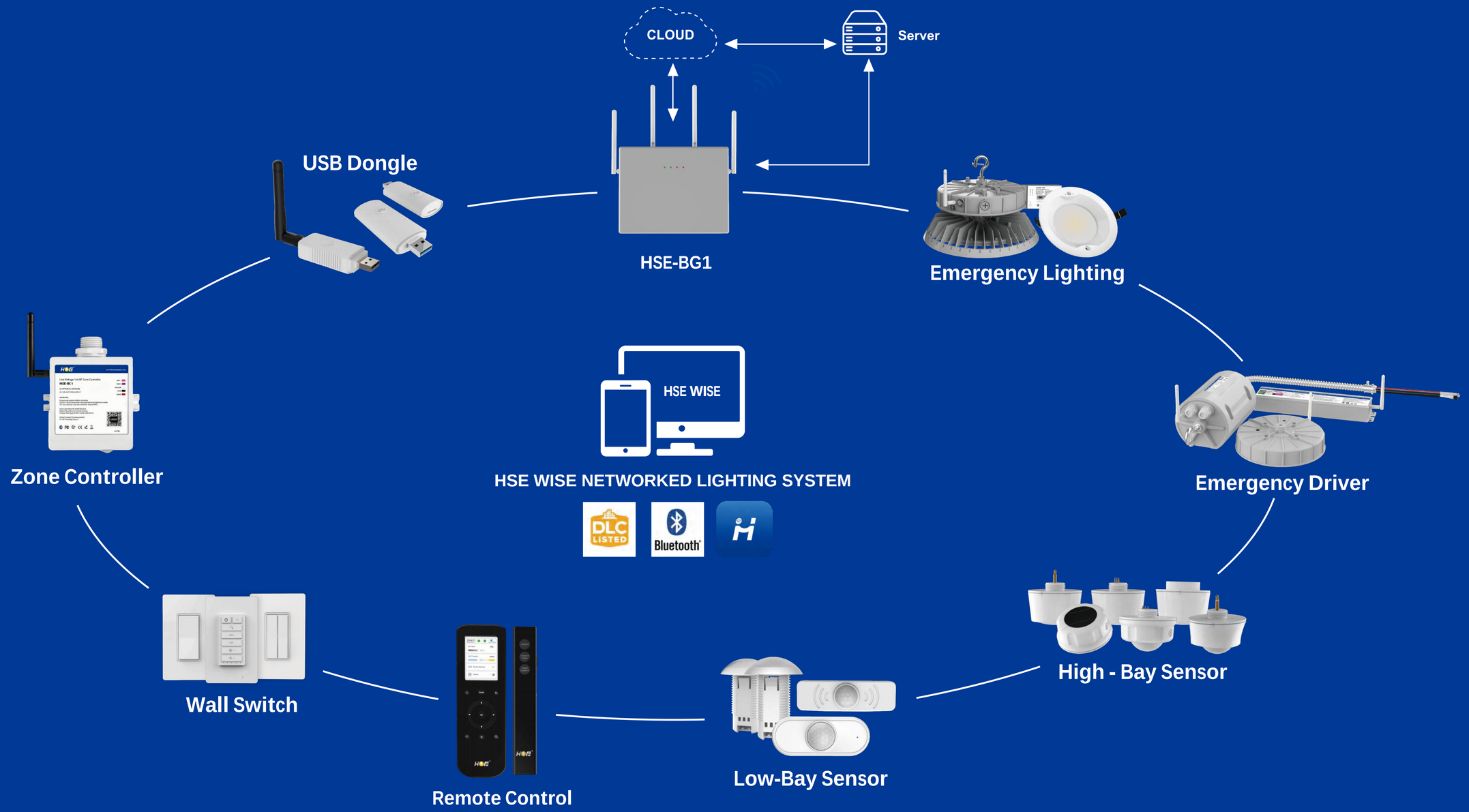
Since Oct 2024

37miles/35mins (by driving)
away from Houston Airport

Address: 14453 Hillcroft Street,
Suite 250 Houston TX 77085



HSE BLUETOOTH CONTROL



HSE WISE

Haisen Networked Lighting system

HSE WISE app enables users to control lighting fixtures either individually or in groups. It offers the fiexibility to customize lighting settings based on different scenarios, such as offces or warehouses, which contributes to energy - efficient management.

Download on the App Store

GET IT ON Google Play



Product ID: N-WPYM0L

DLC LISTED

HSE WISE

Manufacturer: HSE SMART INC
Scope: Indoor
Scale: Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking
Technical Requirements Version: 5

PRODUCT OVERVIEW	
Manufacturer	HSE SMART INC
Product Website	View Website
QPL	Networked Lighting Controls
Product ID	N-WPYM0L
Listing Status	Listed
Date Qualified	2025-11-25
Technical Support Phone	1-341-039-0591
Standard Warranty Length	5

SUMMARY

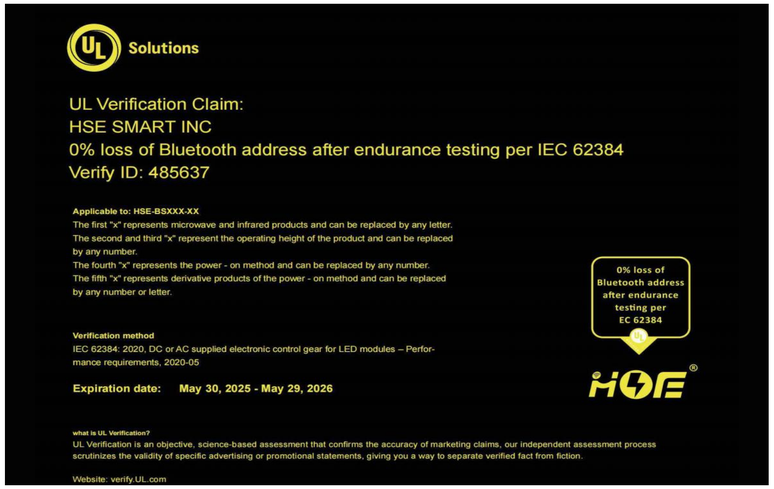
✓ Networking	✓ Occupancy Sensing
✗ Traffic Sensing	✓ Daylight Harvesting
✓ High-End Trim	✓ Zoning
✓ Individual Luminaire Addressability	✓ Continuous Dimming
✓ Control Persistence	✓ Scheduling
✓ Energy Monitoring	✓ Remote Diagnostics
✓ User Interface	✓ Luminaire Level Lighting Control (LLLC)
✗ Personal Control	✗ Load Shedding/Demand Response
✓ Plug Load Control	✗ External Systems Integration
✓ Emergency Lighting	✓ Cybersecurity
✓ Color Changing/Tuning	✓ Scene Control

NETWORK VIEW DETAILS

INTEROPERABILITY VIEW DETAILS

UL Certification

0% loss of Bluetooth address
Verify ID:485637



Solutions

UL Verification Claim:
HSE SMART INC
0% loss of Bluetooth address after endurance testing per IEC 62384
Verify ID: 485637

Applicable to: HSE-BSXXX-XX
The first "x" represents microwave and infrared products and can be replaced by any letter.
The second and third "x" represent the operating height of the product and can be replaced by any number.
The fourth "x" represents the power - on method and can be replaced by any number.
The fifth "x" represents derivative products of the power - on method and can be replaced by any number or letter.

0% loss of Bluetooth address after endurance testing per EC 62384

Verification method
IEC 62384: 2020, DC or AC supplied electronic control gear for LED modules – Performance requirements, 2020-05

Expiration date: **May 30, 2025 - May 29, 2026**

what is UL Verification?
UL Verification is an objective, science-based assessment that confirms the accuracy of marketing claims, our independent assessment process scrutinizes the validity of specific advertising or promotional statements, giving you a way to separate verified fact from fiction.

Website: verify.UL.com

Witnessed Test Data Program(WTDP)
Proiect Number:4791937840



Solutions

Issued by UL Solutions

Certificate of Achievement

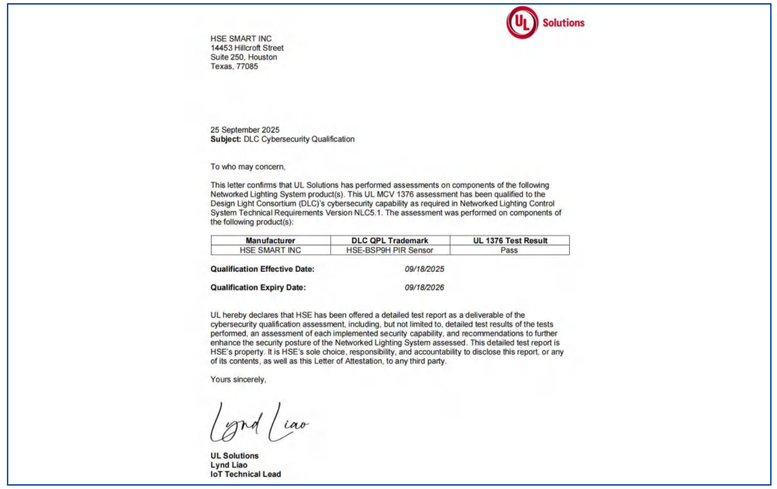
Dongguan Haiyue Intelligent Technology Co.,Ltd
Room1305, Building 1, Songhuzhigu Industrial Building
No. 9 Liaobu South Yanhe Road, Liaobu Town
Dong Guan, Guangdong, 523000, CN

Successfully performed testing to the Standard(s) listed below and had data accepted by UL under the Witnessed Test Data Program (WTDP) as described within the referenced project's datasheets.

Project Number: 4791937840
Testing Performed: UL 924, Edition 10, Revision Date 02/12/2025
Date(s) of Testing: 2025-09-22 to 2025-09-23

Dave Piecuch
DAP Program Manager

UL MCV 1376
Cybersecurity



Solutions

HSE SMART INC
14453 Hillcroft Street
Suite 250, Houston
Texas, 77085

25 September 2025
Subject: DLC Cybersecurity Qualification

To who may concern,

This letter confirms that UL Solutions has performed assessments on components of the following Networked Lighting System product(s). This UL MCV 1376 assessment has been qualified to the Design Light Consortium (DLC)'s cybersecurity capability as required in Networked Lighting Control System Technical Requirements Version NLC5.1. The assessment was performed on components of the following product(s):

Manufacturer	DLC QPL Trademark	UL 1376 Test Result
HSE SMART INC	HSE-BSP9H PIR Sensor	Pass

Qualification Effective Date: *09/18/2025*

Qualification Expiry Date: *09/18/2026*

UL hereby declares that HSE has been offered a detailed test report as a deliverable of the cybersecurity qualification assessment, including, but not limited to, detailed test results of the tests performed, an assessment of each implemented security capability, and recommendations to further enhance the security posture of the Networked Lighting System assessed. This detailed test report is HSE's property. It is HSE's sole choice, responsibility, and accountability to disclose this report, or any of its contents, as well as this Letter of Attestation, to any third party.

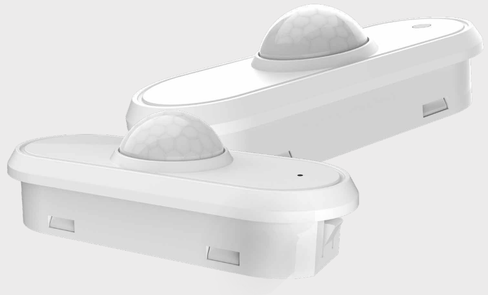
Yours sincerely,

UL Solutions
Lynd Liao
IoT Technical Lead

BLUETOOTH SENSOR CONTROL

INTEGRATED SENSOR SERIES

HSE-XSP2L-5 Series



HSE-XSX5L-X Series



HSE-XSP21L-X Series



Audio Jack(3.5mm)



Audio Jack(2.5mm)

- 12VDC, 0-10V Dimming.
- Bluetooth Version with APP control & Regular Version with remote control both available.
- With Daylight Harvesting and Photocell Function.
- Installation Height:13ft.

APPLICATION



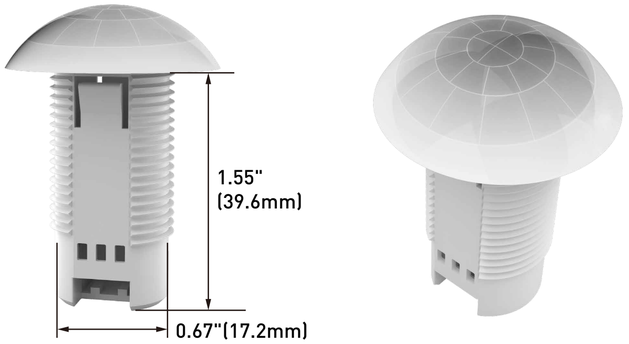
HSE-XSX8L-5 Series

INTEGRATED MUSHROOM SENSOR

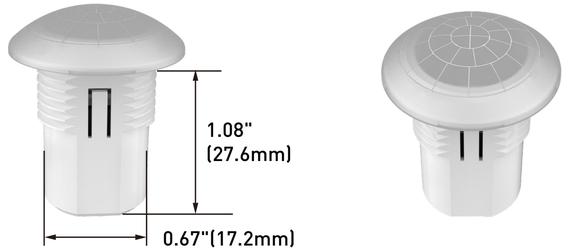
- 12VDC Input, Bi-Level Dimmable.
- Special fit-in mechanical design.
- Bluetooth Version with APP control & Regular Version with remote control both available.
- Installation Height:13ft.



Regular version



Waterproof version



ORDERING INFORMATION

Model Number	Controller	Sensor Type
HSE-XSX8L-5	Blank Regular version	**P** PIR Sensor
	B Bluetooth	**M** Microwave Sensor

Example: HSE-**B**S**P**8L-5 (Bluetooth version / PIR sensor)

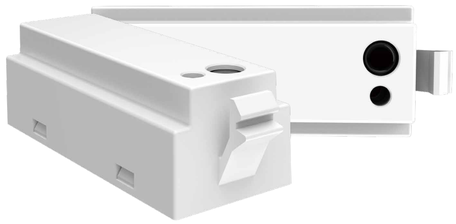
APPLICATION



INTEGRATED SQUARE MICROWAVE SENSOR

HSE-XSM3L-5 Series

- 12VDC Input, Bi-Level Dimmable.
- Bluetooth Version with APP control & Regular Version with remote control both available.
- Installation Height: 9ft.



APPLICATION



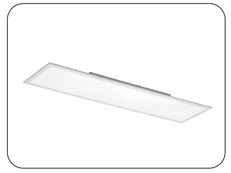


HSE-XSM4L-5 Series

- 12VDC Input, 0-10V Dimming.
- Bluetooth Version with APP control & Regular Version with remote control both available.
- Square module part, with magnet for easy installation.
- Installation Height: 13ft.



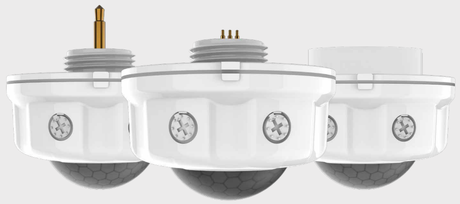
APPLICATION





HIGH - BAY SENSOR SERIES

HSE-XSX9H-X Series



HSE-XSX9H5-X Series



HSE-XSX1H-X Series

The First 50ft Pir Highbay Sensor



- 12VDC, 0-10V Dimming.
- Bluetooth Version with APP control & Regular Version with remote control both available.
- Three connection options are provided: 3-Pin, Audio Jack, and Zhaga, satisfying the com patibility requirements of diverse devices.
- With Daylight Harvesting and Photocell Function.
- Installation Height: 49ft for Microwave, 39ft for PIR.

APPLICATION



HIGH - BAY SENSOR SERIES

HSE-XSX19H-X Series

- 12 VDC, 0 - 10V Dimming.
- Remote control , APP control for BLE version.
- With Daylight Harvesting and Photocell Function.
- Mounting Height: 39ft Max.



APPLICATION





HSE-XSX19L-X Series

- 12 VDC, 0 - 10V Dimming
- Remote control , APP control for BLE version.
- With Daylight Harvesting and Photocell Function.
- Mounting Height: 26ft Max.




APPLICATION





CCT-tuning High-bay PIR Sensor

HSE-XSCP1H-X Series



HSE-XSCP19H-X Series



HSE-XSCP19L-X Series



- 12VDC, 0-10V Dimming.
- Bluetooth Version with APP control & Regular Version with remote control both available.
- 4-pin design enables color-tuning
- Supporting 0-100% stepless dimming & precise multi-color temperature switching.
- With Daylight Harvesting and Photocell Function.

APPLICATION







HSE-XSX11H-X Series

HIGH - BAY PIR SENSOR SERIES

- 12VDC, 0-10V Dimming
- Max Installation Height: 16M/52ft for Microwave, 12M/39ft for PIR
- Elegant and classic round design, with rotators for easy programming
- BLE Version with APP control & Regular Version with remote control both available





ORDERING INFORMATION

Model Number	Controller	Sensor Type	Connector
HSE-XSX11H-X	Blank Regular version	**P** PIR Sensor	**1** Elbow + 3pin
	B Bluetooth	**M** Microwave Sensor	**2A** Elbow + Audio Jack
			2B Audio Jack
			2C Audio Jack at higher position

Example: HSE-**B**S**P**11H-**1** (Bluetooth version / PIR sensor / Elbow + 3pin)

APPLICATION



HSE-BS3

NEW

Battery Powered Bluetooth Sensor

This product is a battery-powered, Bluetooth wireless ceiling-mounted sensor. It can work in conjunction with HSE controllers and devices, and is equipped with motion detection and Daylight Harvesting (daylight collection) sensor functions. Configuration of the sensor is achievable via the HSE WISE app.

- Battery-powered, 3V
- Installation Height: 9ft.



HSE-SP7L-5

NEW

Integrated PIR & Ultrasonic Sensor

The HSE-S7L - 5 series is a integrates PIR and ultrasonic technologies, delivering high accuracy and wide - ranging coverage.

- Input Voltage : 120-347VAC
- Ultrasonic frequency :40kHZ
- Specially Designed for Ceiling or Recessed Mounted



HSE-XSP24H-5 Series

HIGH - BAY PIR SENSOR SERIES

- 120-347V full range input, UL FCC certificated.
- Installation Height: ≤15m/49.21ft Max.
- 0-10V Dimming, with Daylight Harvesting and Photocell Function.
- Suitable for direct linear light installation, or UFO highbay with bracket (type A)

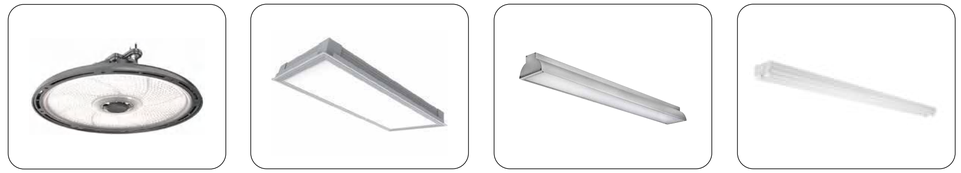


ORDERING INFORMATION

Model Number	Controller
HSE-XSP24H-5	Blank Regular version
	B Bluetooth

Example: HSE-**B**SP24H-5 (Bluetooth version)

APPLICATION



HSE-C2

Dimming & CCT Wireless Fixture Controller

The series integrated fixture controller enables luminaire level lighting control (LLLC) capabilities in a miniature design with integrated "sensor ready" function.With HSE-C2, the fixture will be CCT tunable, rather than CCT selectable. Yyou don't need to change the single 0-10V driver to dual 0-10V driver.



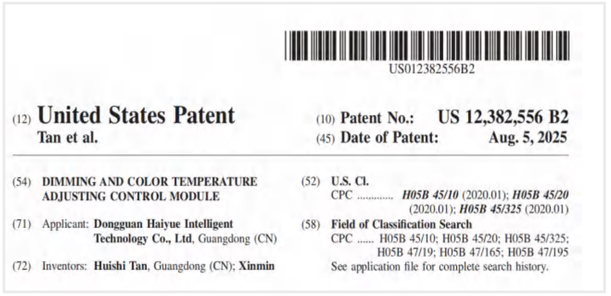
HSE-BC5

Angle Adjustment Controller

- Compatible with lighting products requiring flexible beam angle beam angle adjustment.
- Supports precise 0°-120° adjustment
- Enables smart control with HSE WISE: one-tap beam angle adjustment via mobile phone.

Patent NO. US012382556B2





US012382556B2

(12) **United States Patent**
Tan et al.

(10) **Patent No.: US 12,382,556 B2**
(45) **Date of Patent: Aug. 5, 2025**

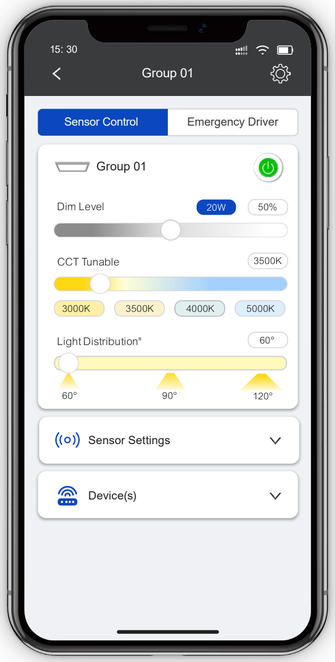
(54) **DIMMING AND COLOR TEMPERATURE ADJUSTING CONTROL MODULE**

(71) Applicant: **Dongguan Haiyue Intelligent Technology Co., Ltd**, Guangdong (CN)

(72) Inventors: **Huishi Tan**, Guangdong (CN); **Xinmin**

(52) **U.S. Cl.**
CPC ***H05B 45/10*** (2020.01); ***H05B 45/20*** (2020.01); ***H05B 45/325*** (2020.01)

(58) **Field of Classification Search**
CPC H05B 45/10; H05B 45/20; H05B 45/325; H05B 47/19; H05B 47/165; H05B 47/195
See application file for complete search history.



HSE-BA1

Intelligent USB Dongle

This USB Bluetooth dongle offers 3 key functions:

Extended Signal Range: Built-in PA (Power Amplifier) acts as a relay to boost transmission distance and stability.

Mesh Data Capture: Accurately captures Mesh network packets and converts them to serial data for analysis.

Aging Data Acquisition: Works with a host PC to collect aging test data, supporting product performance evaluation and optimization.



HSE-BG3

Energy Monitoring USB Dongle

- Precise time synchronization (RTC).
- Regular automatic power data collection.
- Automatic power data processing, upload, local backup, and dual protection.
- Direct USB connection to computer for SD card access.
- Mobile WIFI configuration with auto-saved SSIDs.
- One-click Bluetooth & WIFI reset.
- Web-based remote control.



HSE-BG1

Gateway

Driven by Core Technologies

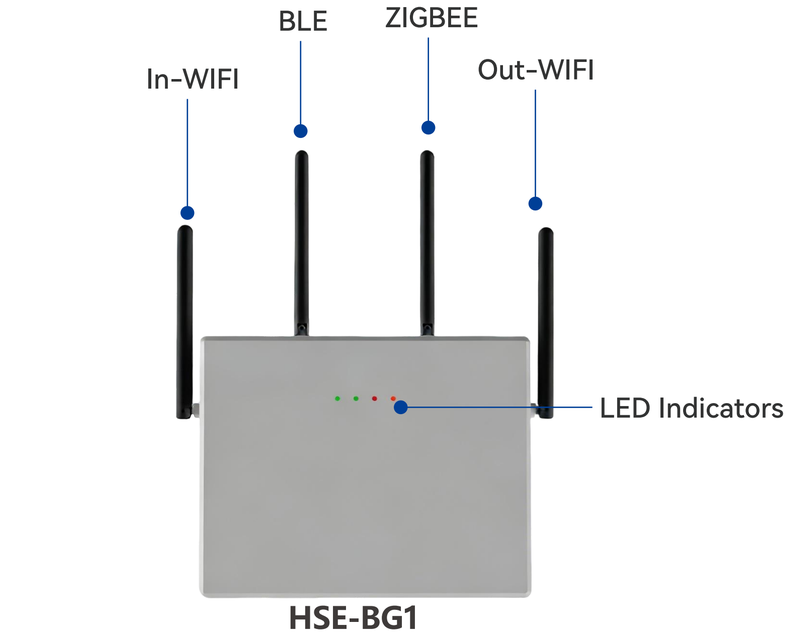
With high - performance ARM926EJ - S processor , providing the device with powerful computing capabilities and a reliable operating environment.

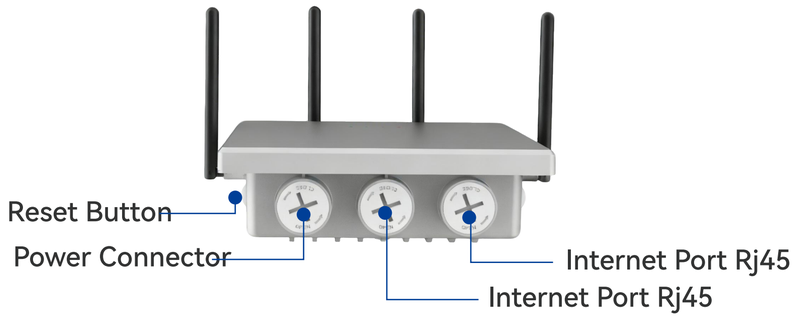
Localized Intelligent Scenario Support

It has a powerful built - in local storage function. Scenario storage and management can be achieved without relying on the network, providing higher security and reliability.

Typical Application Scenarios

Smart Home Control Center, Industrial IoT Gateway, Intelligent Building Automation System





HSE-BC1

Bluetooth Zone Controller

Energy Monitoring

These devices are installed at various points in an energy system to measure the flow of electricity, Power, Current, Voltagc. They are the primary tools for capturing quantitative data on energy consumption.

Data Acquisition Systems

This technology aggregates the data collected by sensors and meters. It acts as the backbone of the energy monitoring system, ensuring that data is accurately collected in real time.

Analytics Software

Advanced software analyzes the collected data to provide insights. It generates detailed reports, visualizes trends through charts and graphs, and offers recommendations for reducing energy wastage.



APP



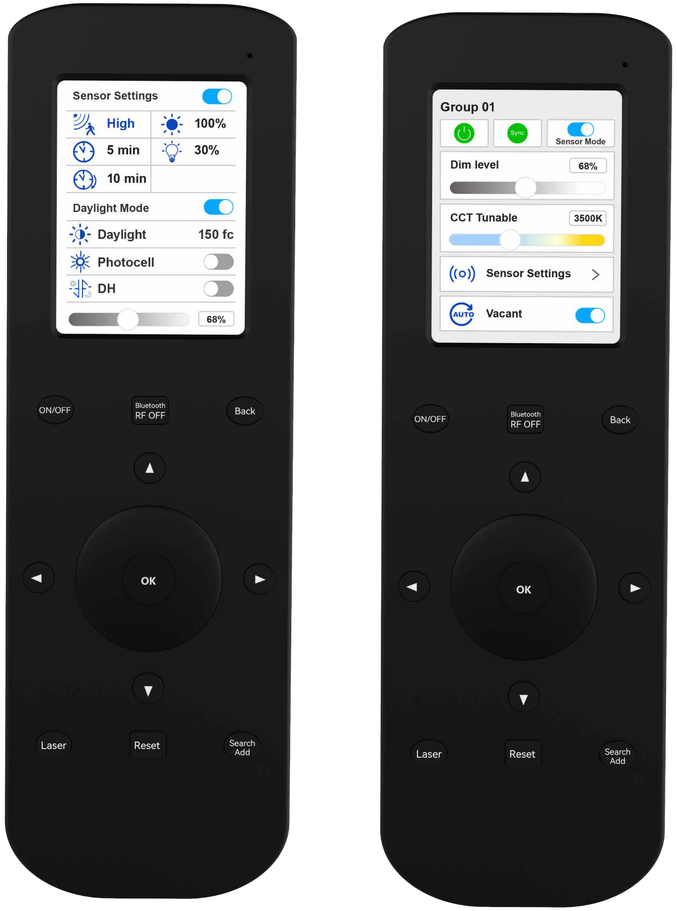
HSE-BC1

HSE01RB

Remote Control

This Bluetooth remote control can establish a stable wireless connection with sensors, providing a convenient way to control associated devices.

This product supports operations such as group switching, scene parameter selection, and network configuration. It can also adjust brightness, color temperature, and beam angle. Meanwhile, it has functions like sensor setting, light sensor setting, and Vacant switch, which can accurately meet the operating requirements of sensors in different scenarios.



HSE02RB

Precise Add Remote Control

This remote control is used to cooperate with the APP to achieve laser - precise network matching for device addition, helping users to conveniently complete the device networking operation.



Type-C interface

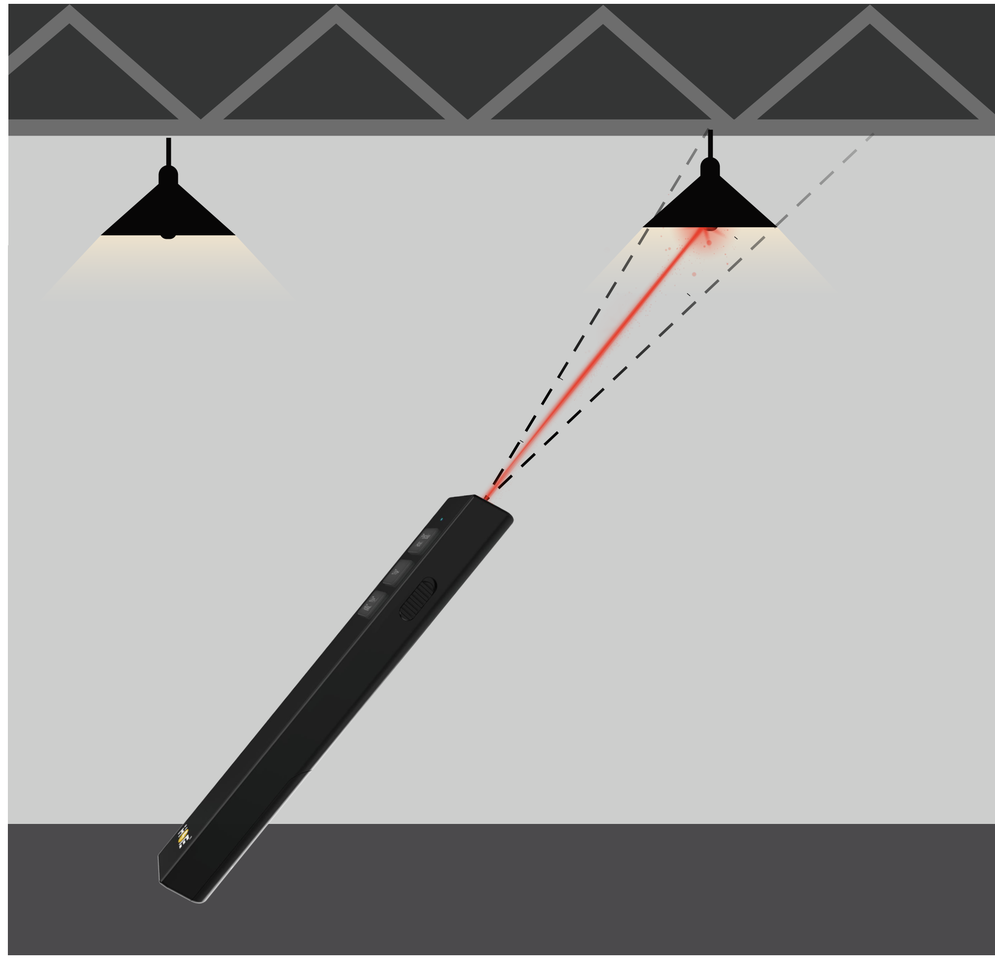
Dim-
Short press: The light dim level decreases sequentially from 100% to 0%.

Dim +
Short press: The light dim level increases sequentially from 0% to 100%.

Precise Add / Reset
Short press: Select the target device to be added, and complete device networking and pairing with laser positioning.
Long press for ≥ 5 seconds: Reset the light sensor and enter Bluetooth pairing mode.

Laser Indication Switch
NOTICE: Do not direct at personnel when in use to prevent personal injur

Indicator
Blue LED Slow Flash: Pairing mode, waiting for APP
Blue LED Fast Flash: Pairing successful, initializing network



Wall-Switch

Wireless Wall-Switch



HSE-BW1

- Rechargeable Power Design, with battery inside center-piece
- Center piece can be taken off as a tiny remote control
- ON/OFF and Daylight Harvesting quick button
- Sensor mode switch, paired with different dimming/ color temperature settings

Self-powered wall switch



HSE-BW2 **HSE-BW3**

Two Key Functions

Top key: Turns the light on.

Bottom key: Turns the light off

Four Key Functions

Top-left key: Light NO, long press to dim level+

Bottom-left key: Light OFF, long press to dim level-

Infrared Sensor Wall Switch

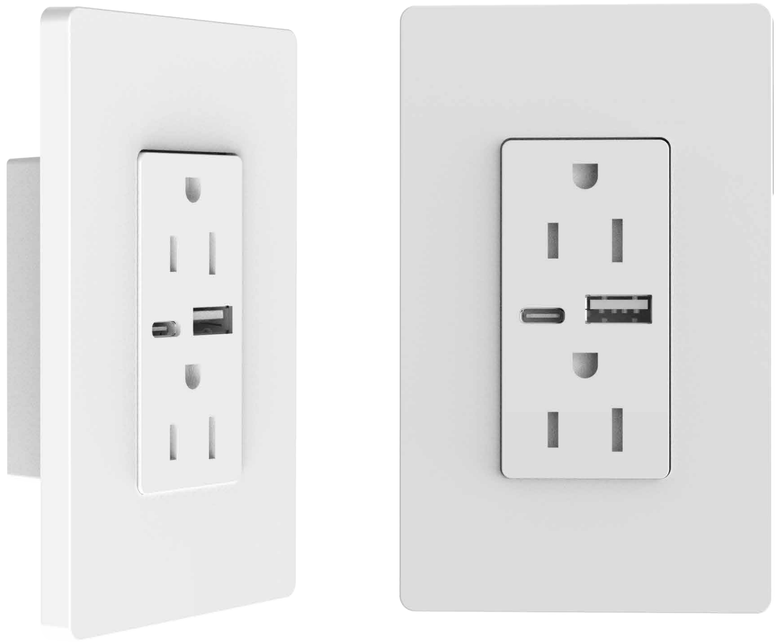


HSE-BC4

- 120-347V Universal Voltage
- Occupancy/Vacancy (2-IN-1)
- Integrated PIR sensor and photo sensor with Hold-Off function

INTELLIGENT PLUG LOAD CONTROLLER

- Supports manual switching.
- Can be remotely controlled via APP.
- Has a schedule timing function.
- Enables real - time power detection.
- Supports linkage setting with sensors.
- Compatible with self - generating power and wall - mounted panels.
- Equipped with an indicator light and supports button reset and parameter setting.



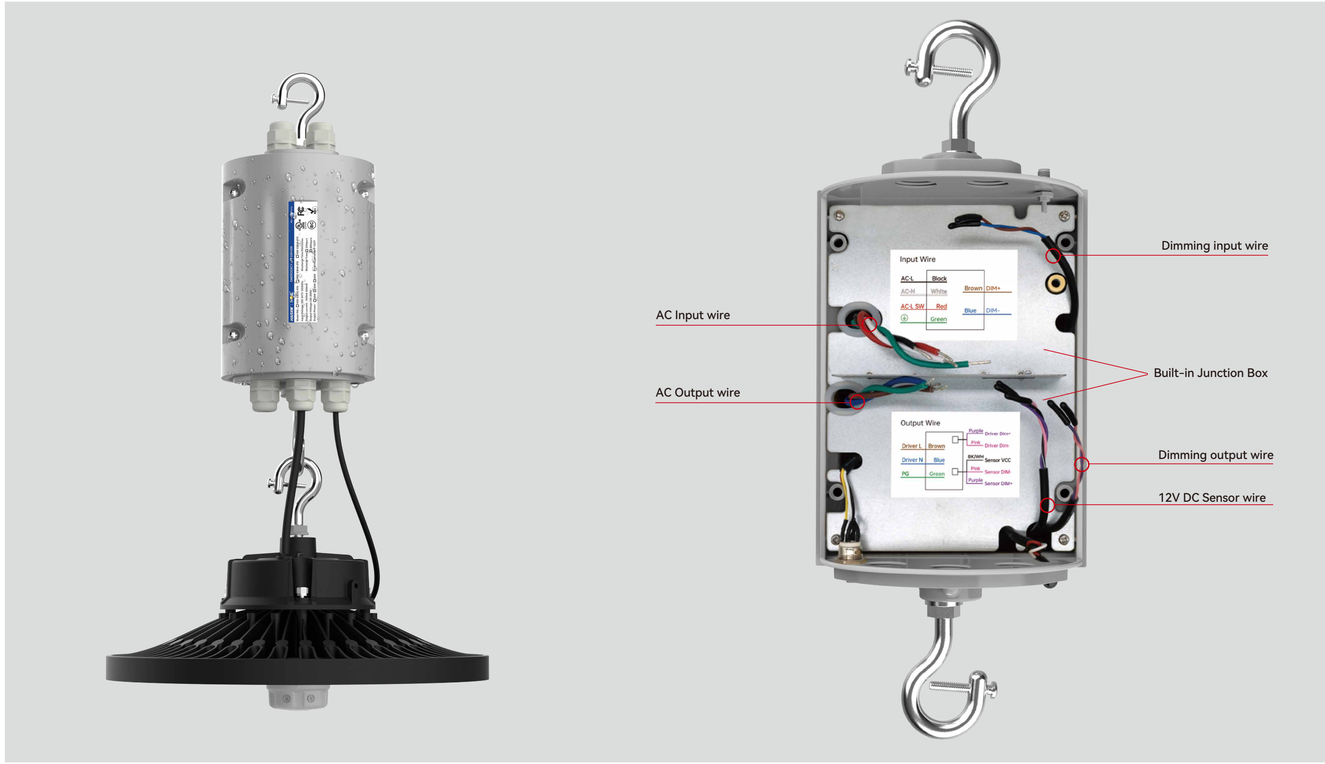
SMART EMERGENCY DRIVER

HSE-EIB40-01S Series

HOT

PATENTED

- UL listed for field or factory installation,CEC title 20 compliant, compliance with American NFPA 101 life Safety Code.
- Easy wiring,connect with the AC input of LED driver directly.
- With built-in junction box.
- Wireless remote control.
- 5 years warranty.



Input voltage
100-347V AC

Ouput voltage
170V DC

Emergency power
30W 40W 60W

Battery type
Li-ion

IP69K IP65 Li-ion 5 years Warranty Remote control Self Test

APPLICATION



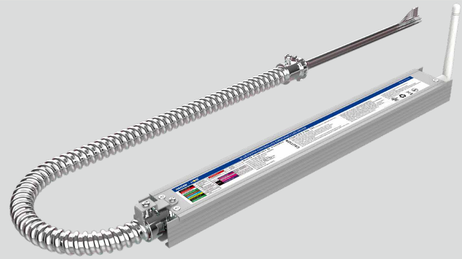
EM driver for Supply Line hook-up

HSE-EIA-01S Series

EM driver for Supply Line hook-up

- UL listed for field or factory installation,CEC title 20 compliant, compliance with American NFPA 101 life Safety Code.
- Easy wiring,connect with the AC input of LED driver directly.
- Wireless remote control.
- Regular/Cold-pack versions optional
- 5 years warranty.

HSE-EIAXX-01S | 9W / 15W



Dimension: 14.6 x 1.62 x 1.43 "

HSE-EIAXX-01S | 25W / 32W / 40W



Dimension: 12.24 x 2.59 x 1.53 "

HSE-EIAXX-01S-CT | 9W / 15W / 25W



Dimension: 6.69 x2.44 x 1.57 "

HSE-EIAXX-01S-CT-D | 9W / 15W / 25W



Dimension: 12.24 x .59 x 1.53 "

Input voltage
100-347V AC

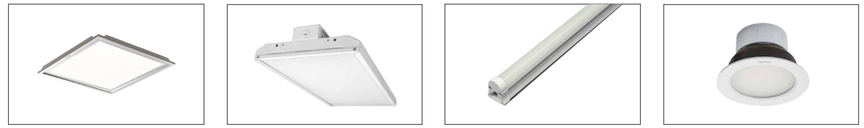
Ouput voltage
170V DC

Battery type
Li-ion

Emergency power
9W 15W 25W 32W 40W (Regular: 0°C ~ +55°C)
9W 15W 25W (Cold-pack: -25°C ~ +50°C)

Li-ion | 5 years Warranty | Remote control | Self Test | cULus LISTED | BC

APPLICATION



HSE-EIH-01S Series

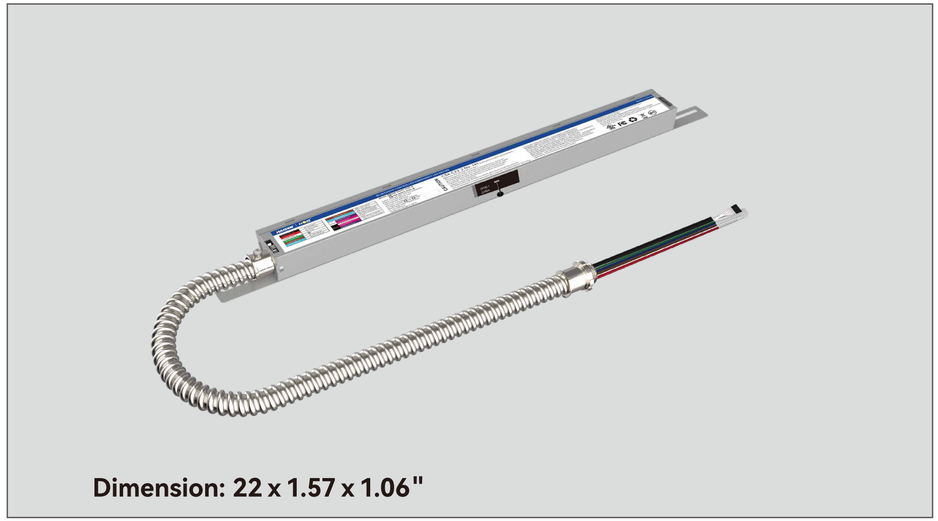
- Specially designed for backlit panel light,the maximun wattage up to 120W with 0-10V dimming function.
- Use with lithium battery.
- Accessary soft panel test button.
- Remote control optional,easy for testing.

Input voltage
100-347V AC

Ouput voltage
170V DC

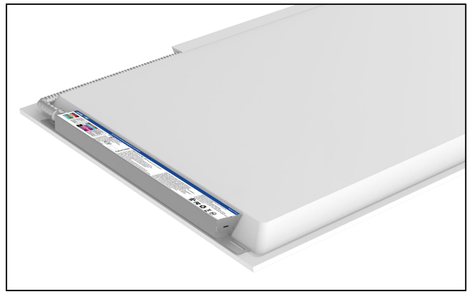
Emergency power
9W 15W

Battery type
Li-ion

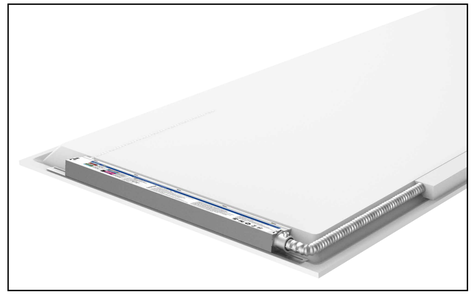


5 years Warranty | Remote control | Li-ion | BC | c UL us LISTED E528696 | Self Test | CP CONSTANT POWER EMERGENCY OUTPUT

MOUNTING CONFIGURATION



Left single flex



Right single flex

HSE-EII-01S Series

- Specially designed for the LED downlight.
- Easy wiring,connect with the AC input of LED driver directly.
- 5 years warranty

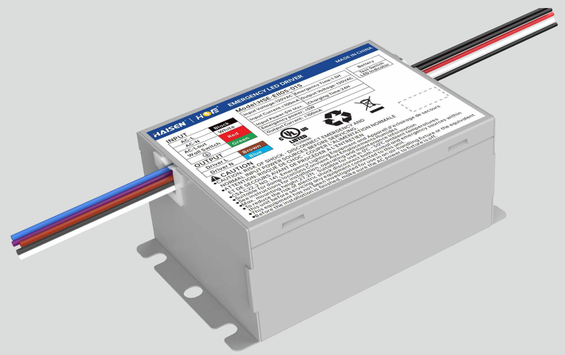
Input voltage
120V AC

Ouput voltage
120V AC

Emergency power
5W / 12W / 15W

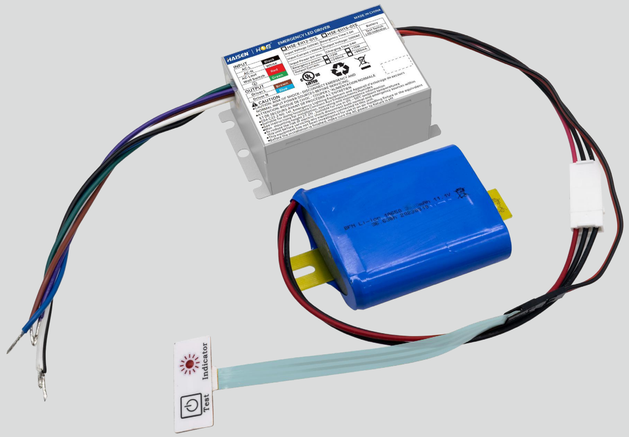
Battery type
Li-ion

HSE-EIIXX-01S	05W



Dimension: 3.46 x 2.12 x H 1.37 "

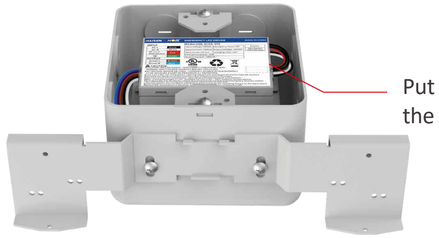
HSE-EIIXX-01S	12W / 15W



Dimension: 3.54 x 2.12 x 0.86"
Battery: 3.81 x 2.18 x 0.86"

5 years Warranty · Remote control · Li-ion · BC · c UL us LISTED E528696 · Self Test · CP CONSTANT POWER EMERGENCY OUTPUT

INSTALLATION REFERENCE





EM driver for Supply Line hook-up

HSE-EOC-02S SERIES

- UL listed for field or factory installation,CEC title 20 compliant, compliance with American NFPA 101 life Safety Code.
- Constant output power.
- Use LiFePO4 battery,with good high temperature resistance.
- Regular/Cold-pack versions optional.
- Wireless remote control.
- 5 years warranty.

Input voltage
100-347VAC

Battery type
LiFePO4

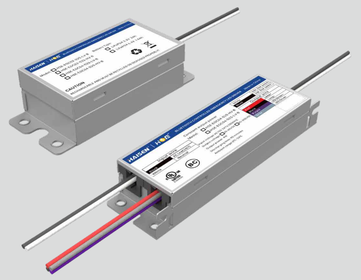
Ouput voltage
20-60V DC 90-300V DC

Emergency power
2W 4W 8W (Regular: 0°C ~ +55°C)
4W 8W (Cold-pack: -20°C ~ +50°C)

HSE-EOCXX-02S | 2W / 4W

Dimension:
3.62 x 1.22 × 0.74"

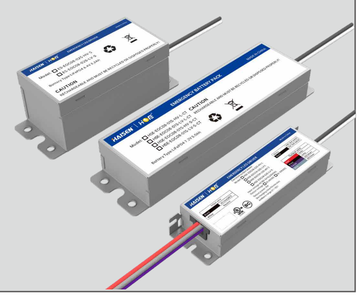
Battery:
3.74 x 1.57 × H 1"



HSE-EIAXX-01S | 25W / 32W / 40W

Dimension:
4.33 x 1.22 × 0.74"

Battery:
4.33 x 1.71 × 1.57"
6.49 x 1.71 × 1"



HSE-EOC04-02S-CT | 4W

Dimension:
4.33 x 1.22 × 0.74"

Battery:
3.74 x 1.57 × 1"



HSE-EOC08-02S-CT | 8W

Dimension:
4.33 x 1.22 × 0.74"

Battery:
6.49 x 1.71 × 1"



5 years Warranty · Remote control · BC · c UL us LISTED E528696 · Self Test

APPLICATION



EM driver for LED hook-up

HSE-EOC-02S SERIES

- UL listed for field or factory installation,CEC title 20 compliant, compliance with American NFPA 101 life Safety Code.
- Constant output power.
- Use LiFePO4 battery,with good high temperature resistance.
- Regular/Cold-pack versions optional.
- Wireless remote control.
- 5 years warranty.

Input voltage
100-347VAC

Battery type
LiFePO4

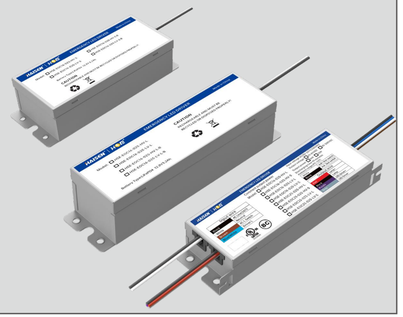
Ouput voltage
20-60V DC 90-300V DC

Emergency power
16W 25W (Regular: 0°C ~ +55°C)
16W 25W (Cold-pack: :-20°C ~ +50°C)

HSE-EOCXX-02S | 16W

Dimension:
5.86 x 1.71 × 1"

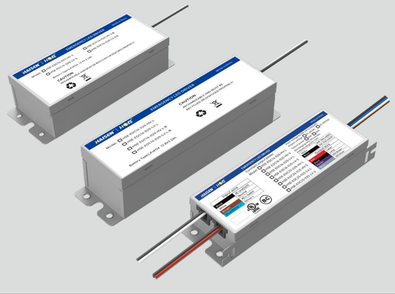
Battery:
6.69 x 1.71 × 1.57"
6.69 x 2.32 × 1.18"



HSE-EOCXX-02S | 25W

Dimension:
5.86 x 1.71 × 1"

Battery:
6.69 x 2.44 × 1.57"
9.44 x 2.32 × 1.18"



HSE-EOC04-02S-CT | 16W

Dimension:
5.86 x 1.71 × 1"

Battery:
6.69 x 1.71 × 1.57"



HSE-EOC08-02S-CT | 25W

Dimension:
5.86 x 1.71 × 1"

Battery:
6.69 x 2.44 × 1.57"



5 years Warranty · Remote control · BC · c UL us LISTED E528696 · Self Test

APPLICATION



EM driver for LED hook-up

HSE-EOG SERIES

- Widely output voltage range fit for the isolated and non-isolated led driver solutions.
- Built-in Junction box,easy to connect wires.
- Both remote control and bluetooth control are available.

Input voltage

120-347V AC, 120-277V AC, 277-480V AC.

Ouput voltage

20-60V DC,90-300VDC

Emergency power

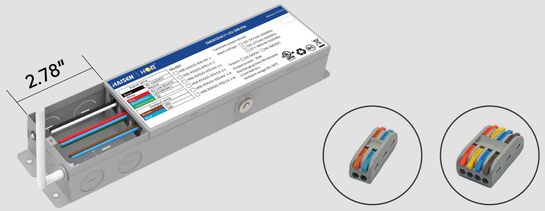
10 / 15 / 20 / 25 / 30 / 40W (Li-ion)
12 / 25W (LiFePO4)

Battery type

Li-ion / LiFePO4

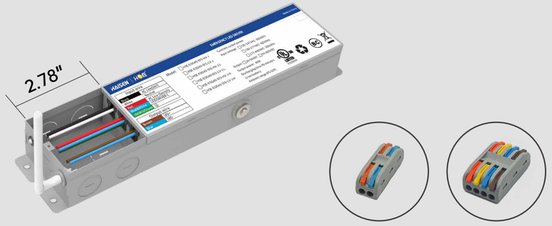
HSE-EOGXX-0XS-J | 10W 12W 15W 20W 25W

Dimension: 11.02 x 2.56 × 1.58"



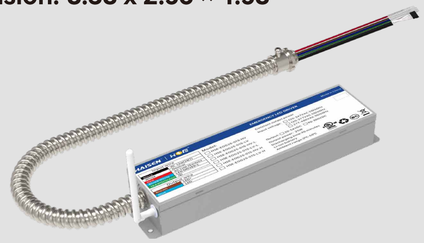
HSE-EOGXX-0XS-J | 25W 30W 40W

Dimension: 13.58 x 2.56 × 1.58"



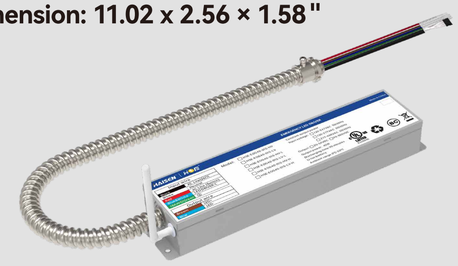
HSE-EOGXX-0XS | 10W 12W 15W 20W 25W

Dimension: 8.38 x 2.56 × 1.58"



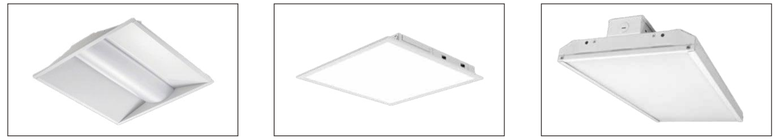
HSE-EOGXX-0XS | 25W 30W 40W

Dimension: 11.02 x 2.56 × 1.58"



5 years Warranty | Remote control | Li-ion | BC | cULus LISTED E528696 | Self Test

APPLICATION



EM driver for LED hook-up

HSE-EOI SERIES

NEW

- Different housing configurations designed for different lighting fixtures,can be widely used with the edgelit or backlit panel light,LED troffer,linear light,wrap tight etc..
- Suitable for both internal and external installation.
- Widely output voltage range fit for the isolated and non-isolated led driver solutions.
- Both remote control and bluetooth control are available.

Input voltage
120-277V AC, 120-347V AC

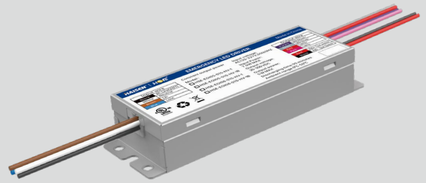
Ouput voltage
20-300V DC

Emergency power
4W (LiFePO4)
5W 8W 9W 11W (Li-ion)

Battery type
LiFePO4 / Li-ion

HSE-EOIXX-01S-I-1 | 4W / 5W / 8W / 11W

4W (LiFePO4)
5W 8W 11W (Li-ion)



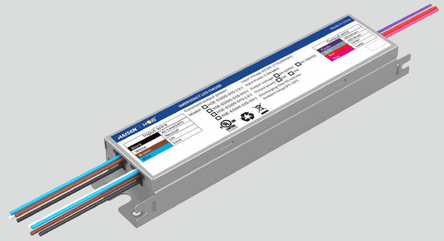
Dimension: 5.31 × 1.69 × 0.98"

HSE-EOI05-01S-I | 5W



Dimension: 6.14 × 1.26 × 0.98"

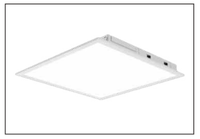
HSE-EOIXX-01S-I | 5W / 9W / 11W



Dimension: 7.68 × 1.65 × 1.02"

5 years Warranty | Remote control | BC | c UL us LISTED E525696 | Self Test

APPLICATION





HSE-EOI SERIES

NEW

- Different housing configurations designed for different lighting fixtures,can be widely used with the edgelit or backlit panel light,LED troffer,linear light,wrap tight etc..
- Suitable for both internal and external installation.
- Widely output voltage range fit for the isolated and non-isolated led driver solutions.
- Both remote control and bluetooth control are available.

Input voltage
120-277V AC, 120-347V AC

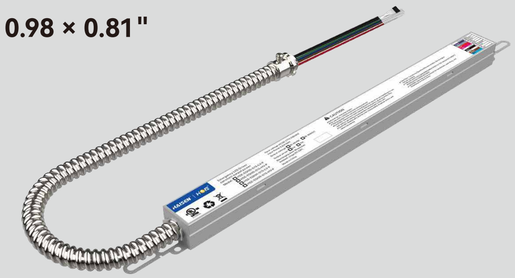
Ouput voltage
20-300V DC

Emergency power
5W 9W (Li-ion)

Battery type
Li-ion

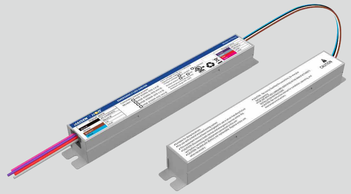
HSE-EOI05-01S-P | 5W / 9W

Dimension: 15.94 × 0.98 × 0.81"



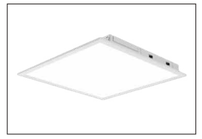
HSE-EOI05-01S-D | 5W / 9W

Dimension: 7.56 × 0.98 × 0.81"
Battery: 7.56 × 0.98 × 0.81"



5 years Warranty | Remote control | Li-ion | BC | c UL us LISTED E525696 | Self Test

APPLICATION





SMART EMERGENCY LIGHTING

HSE-EDA-02S-240-EL

- Specially designed for the UFO highbay light.
- Combination drivers that provide both AC and emergency operation.
- All models have three selectable wattages,adjustable CCTs: 3500K / 4000K / 5000K.
- Both remote control version and bluetooth control version are available











Self Test | BC | Li-ion | 5 years Warranty | Remote control | IP69K | IP65 | UL LISTED | DLC LISTED PREMIUM

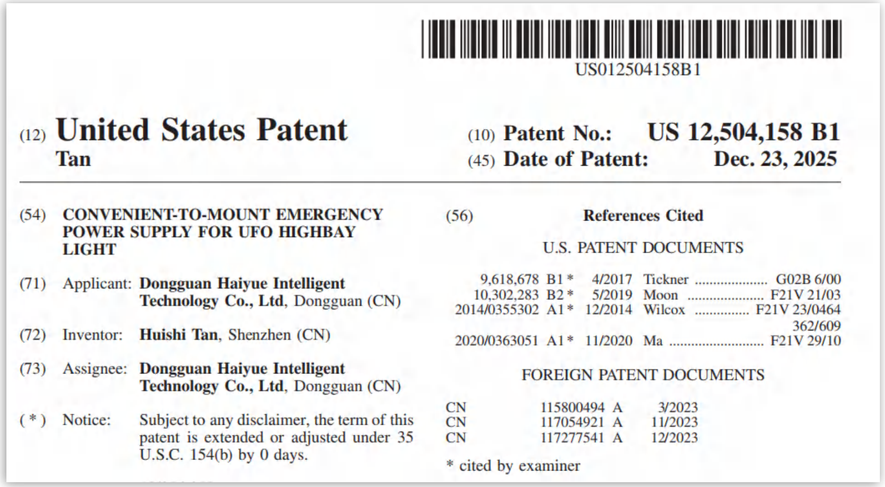
Input voltage
120-347V AC

Wattage selectable
150/200/240W

Emergency power
15/20/25/30W

Battery type
LiFePO4

Patent NO. US012504158B1



US012504158B1

(12) **United States Patent**
Tan

(10) **Patent No.: US 12,504,158 B1**
(45) **Date of Patent: Dec. 23, 2025**

(54) **CONVENIENT-TO-MOUNT EMERGENCY POWER SUPPLY FOR UFO HIGHBAY LIGHT**

(71) Applicant: **Dongguan Haiyue Intelligent Technology Co., Ltd**, Dongguan (CN)

(72) Inventor: **Huishi Tan**, Shenzhen (CN)

(73) Assignee: **Dongguan Haiyue Intelligent Technology Co., Ltd**, Dongguan (CN)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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2020/0363051	A1 *	11/2020	Ma	F21V 29/10

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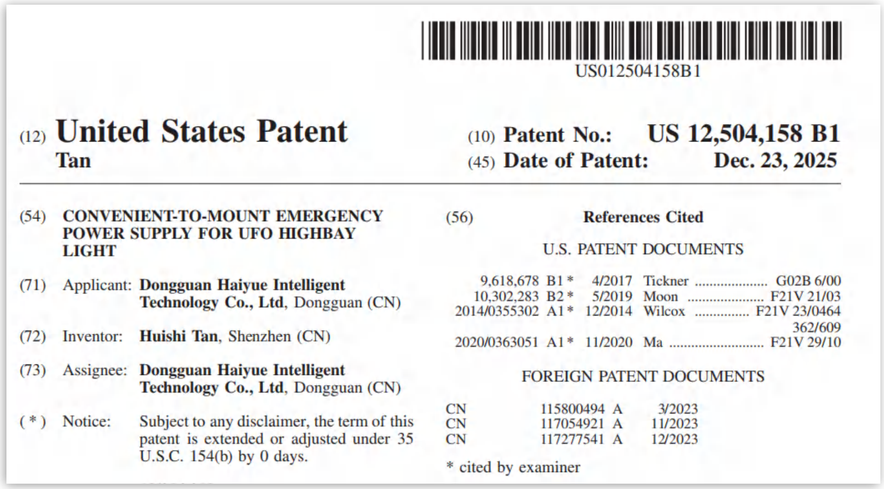
CN	115800494	A	3/2023
CN	117054921	A	11/2023
CN	117277541	A	12/2023

* cited by examiner

HSE-EDA-02S-150-EL

- Specially designed for the UFO highbay light.
- Combination drivers that provide both AC and emergency operation.
- All models have three selectable wattages,adjustable CCTs: 3500K / 4000K / 5000K.
- Both remote control version and bluetooth control version are available

Patent NO. US012504158B1



US012504158B1

(12) **United States Patent**
Tan

(10) **Patent No.: US 12,504,158 B1**
(45) **Date of Patent: Dec. 23, 2025**

(54) **CONVENIENT-TO-MOUNT EMERGENCY POWER SUPPLY FOR UFO HIGHBAY LIGHT**

(71) Applicant: **Dongguan Haiyue Intelligent Technology Co., Ltd**, Dongguan (CN)

(72) Inventor: **Huishi Tan**, Shenzhen (CN)

(73) Assignee: **Dongguan Haiyue Intelligent Technology Co., Ltd**, Dongguan (CN)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(56) **References Cited**

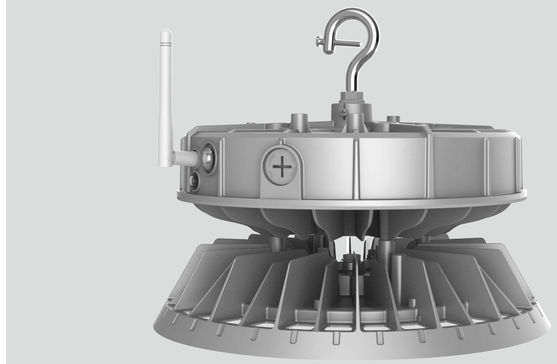
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2014/0355302	A1 *	12/2014	Wilcox	F21V 23/0464 362/609
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FOREIGN PATENT DOCUMENTS

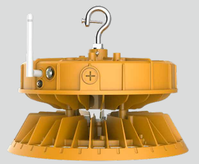
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CN	117277541	A	12/2023

* cited by examiner

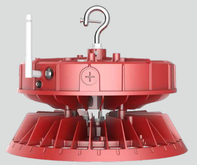


Dimension: 11.02 × 8.70"

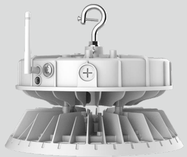
Silver Version



Yellow Version



Red Version



White Version



Black Version

Self Test | BC | Li-ion | 5 years Warranty | Remote control | IP69K | IP65 | UL LISTED | DLC LISTED PREMIUM

Input voltage
120-347V AC

Wattage selectable
80/100/150W

Emergency power
10/15/20W

Battery type
LiFePO4

HSE-EDB SERIES

- Constant power, self testing.
- Ideal design for LED downlights, built-in junction box.
- 5Power Selectable and 5CCT selectable in regular model.
- 2-in-1, compatible with both conventional power supply function and emergency power supply function..
- 5 years warranty.

5 years Warranty | Remote control | Li-ion | BC | c UL us LISTED E528696 | Self Test



Input voltage
120-347V AC

Ouput voltage
30-38V DC

Wattage selectable
6" (9W/13W/18W/21W/24W)
8" (16W/20W/23W/27W/30W)

Emergency power
5W

Battery type
Li-ion

CCT selectable
2700K/3000K/3500K/4000K/5000K

HSE-EL08 SERIES

- Combines conventional lighting, smart Sensor and Emergency driver in one single T8 tube. No external accessories required, enabling extremely simple wiring.
- Multiple protections: The battery features overcharge, over-discharge and over-current protection; the driver circuit supports overload and short-circuit protection, improving product reliability.
- Suitable for commercial offices, industrial plants, underground parking garages, schools, hospitals, public corridors and other places requiring energy-saving lighting and emergency lighting.
- Five power levels and color temperature are adjustable via DIP switch.



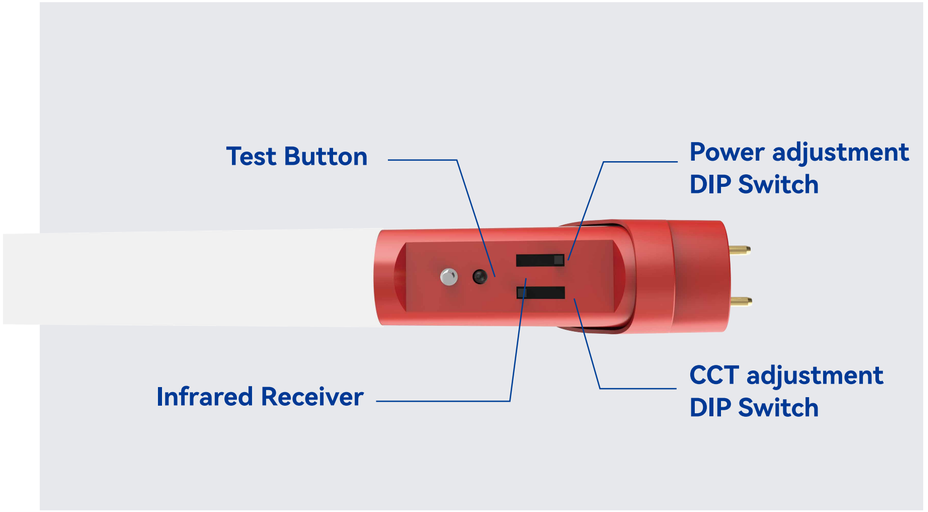
Input voltage
120-277V AC

Battery type
Li-ion

Emergency power
3W

Wattage selectable
10W / 12W / 15W / 18W / 24W

CCT selectable
3000K / 3500K / 4000K / 5000K / 6500K



THANKS

24hrs Service Call

72hrs On-Site Service

Whatsapp: +8613410390591

evelyn@haisensz.com

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Overseas Factory:

182 Moo 5 Na Wang Hin Sub-District,Phanat Nikhom District,Chonburi,Thailand 20240