ShenZhen Lighting®

LED High Bay Light



SZ-HB750WH-X-ACP



SZ-HB750WH-X-ACP(EM)

High-Power Adjustable UFO High Bay Light

The HB luminaire achieves a high luminous efficacy of up to 170 lm/W and is equipped with a 3-in-1 Electronically adjustable power and color temperature lighting solution. This product is suitable for large outdoor plazas such as airports, shopping malls, warehouses, and industrial facilities. The luminaire has a power range of 500-750W, allowing businesses and facilities to select the appropriate power level based on specific requirements. The adjustable color temperature function enables users to customize the color temperature of the light output according to personal preferences or specific lighting needs.

Applications

Indoor/ Industrial/ Supermarket

- Indoor Industrial
- Warehouses
- Factories
- Airports
- Supermarket
- Outdoor plaza



Industries



Warehouse



Factories



Airports



Supermarket



Outdoor plaza

LED High Bay Light

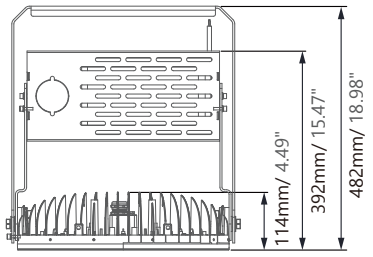
Most Cost-Effective Highbay

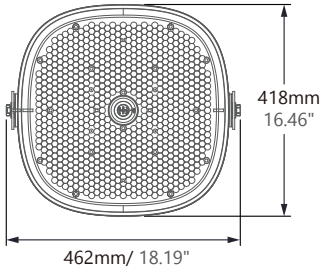
Featuring Powerland power supplies (0-10V dimming function) and Lumileds 2835 LED chips, these fixtures are ideal for large industrial and outdoor lighting applications. Their adjustable power and color temperature functions significantly reduce the number of fixtures required and minimize inventory space, making them the most cost-effective high bay fixtures available today.

Dimension (mm/ in)









3-in-1 Wattage & CCT Adjustable Solution

Wattage Adjustable

750W: 500W-600W-750W

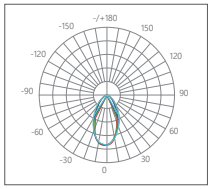
CCT Adjustable

3000K-4000K-5000K
4000K-5000K-5700K

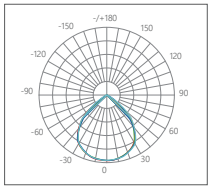




Photometric Diagrams



60°

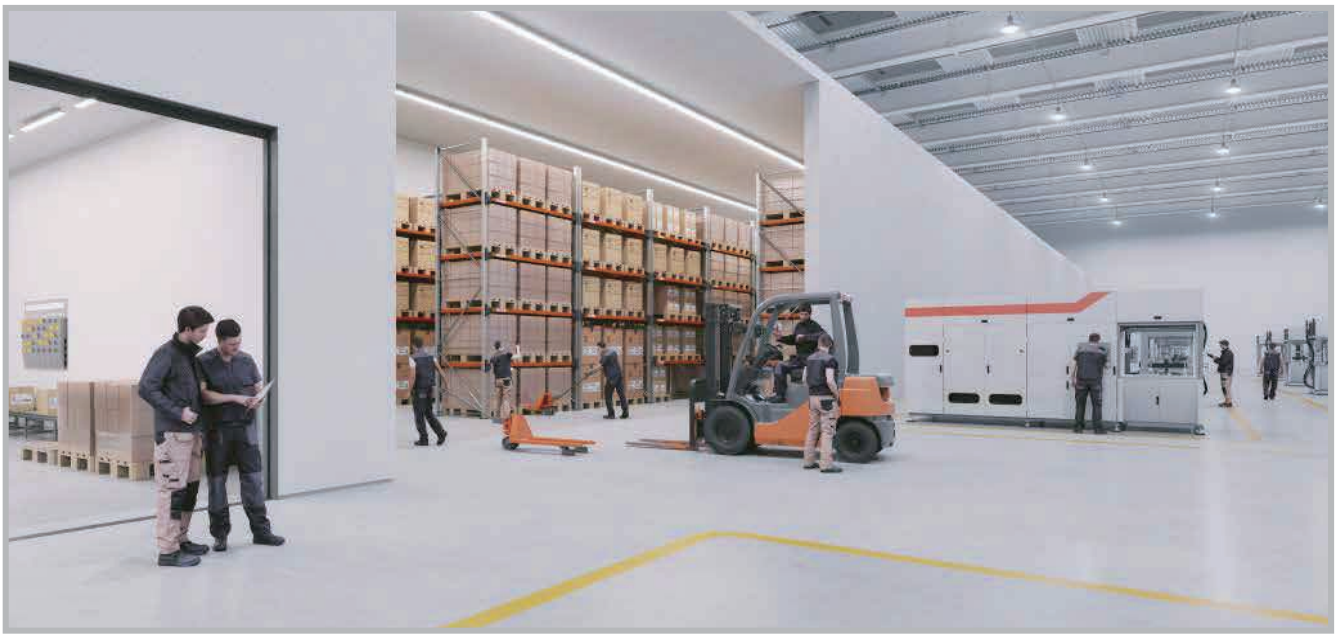


90°

LED High Bay Light

UGR<28 (@90°)

The HB provides exceptional lighting comfort, with a UGR<28, this means it produces minimal glare, making it comfortable for workers and reducing the risk of eye strain or discomfort.





Excellent Heat Dissipation Design

The HB uses a opto-electric separation structure design to isolate the heat generated by the driver and heat sink, thereby minimizing the impact of heat on performance and ensuring a longer service life for the luminaire.

Surface Treatment

HB outstanding performance is particularly popular in the market. It has an impact protection rating of IK08 and a corrosion-resistant surface treatment that is suitable for use in harsh outdoor environments.

90° Flexible Adjustment

The lamp head can be easily adjusted and secured by loosening or tightening the nuts on both sides, and its lighting range can be flexibly adjusted within a 90° range according to the needs of the venue.

ShenZhen Lighting

LED High Bay Light



Parameters

Model No.	SZ-HB750WH-X-ACP / SZ-HB750WH-X-ACP(EM)
Wattage	750W
Wattage Seletcable	500W/600W/750W
Light Efficiency (@4000K) (90°)	170Lm/W @Medium CCT
Lumen Flux (@4000K or Medium CCT)	127,500Lm
CCT Seletcable	3000K/4000K/5000K, 4000K/5000K/5700K
Beam Angle	60° / 90°
CRI	70 / 80
SDCM	<7
Input Voltage	AC277-480V
Power Factor	0.9
THD	<20%
Protection Against Electric	Class I
IP	IP65 Wet location
IK	IK08
Operating Temp Range	-30°C~+50°C / -22°F~+122°F
Intelligent Control	0-10V Dimming
Lifetime	50,000H (L70B50 @35°C) / 50,000H (L70B50 @95°F)
Net Weight (kg/lbs)	18.6±0.5kg / 41.01±1.1 lbs
Dimension (mm/in)	462x 418x 482mm/ 18.19x 16.46x 18.98in
Packing Dimension (mm/in)	495x 475x 550mm/ 19.49x 18.70x 21.65in
Warranty	5 years
Certificate	UL / CUL
Specification	LED Brand: Lumileds2835 Driver Brand: Powerland
Material	Structure: Die-casting/ Aluminum Alloy
	Finish: Power Coated Lens: PC Color: Black

EMERGENCY LED DRIVER



FEATURES

- With a built-in junction box, no mounting bracket required
- Constant output power. Self-testing
- Quick wiring terminal is easy to install
- Input Surge Protection: DM 6kV, CM 6kV
- Includes 2-in 1 test switch and charge indicator light
- 5 year limited warranty
- Suitable for use in dry location
- UL Listed for factory or field installation-UL924 & CSA C22.2 NO.141
- California Energy Commission (CEC) T20 with BC

ELECTRICAL SPECIFICATIONS

- Input Voltage:277-480Vac,50/60Hz
- Input Current: 80mA max
- Input Power: 10W max
- Output Power: Li-ion:40W
- Output Voltage: 60-300Vdc
- Recharge Time: ≥24H
- Discharge Time: 90 minutes
- Battery: Li-Fe PO4/Li-ion battery
- Ambient Temp: Li-ion:0°C to 50°C

CONSTANT POWER EMERGENCY OUTPUT

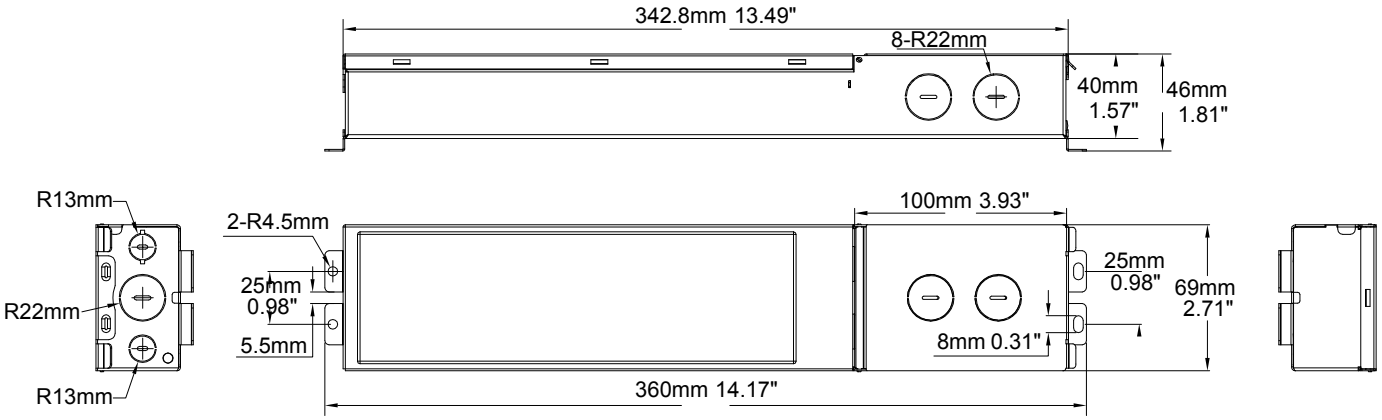
Self Test

ORDERING GUIDE

Model Number	Input Voltage	Output Voltage	Output Power	Emergency Time	Charging Time	Battery Type
GTF40H-300JD	277-480VAC 50/60Hz	60-300Vdc	40W max	1.5H	≥24H	Li-ion Battery

DIMENSIONS

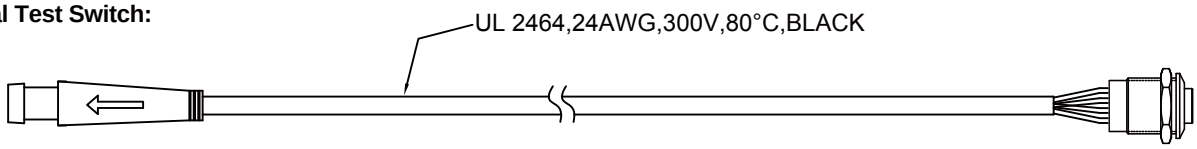
Driver- 14.17"x2.71"x1.81"(360mmx67mmx46mm) mounting center-13.49"



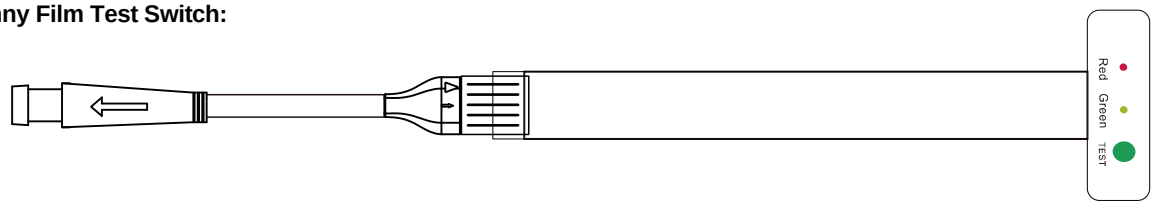
EMERGENCY LED DRIVER

OPTIONAL TEST SWITCH

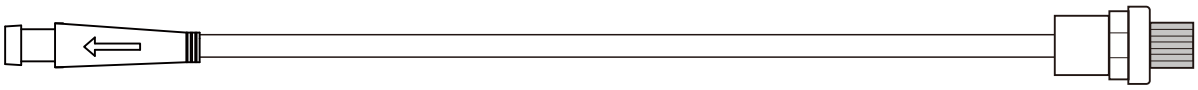
Metal Test Switch:



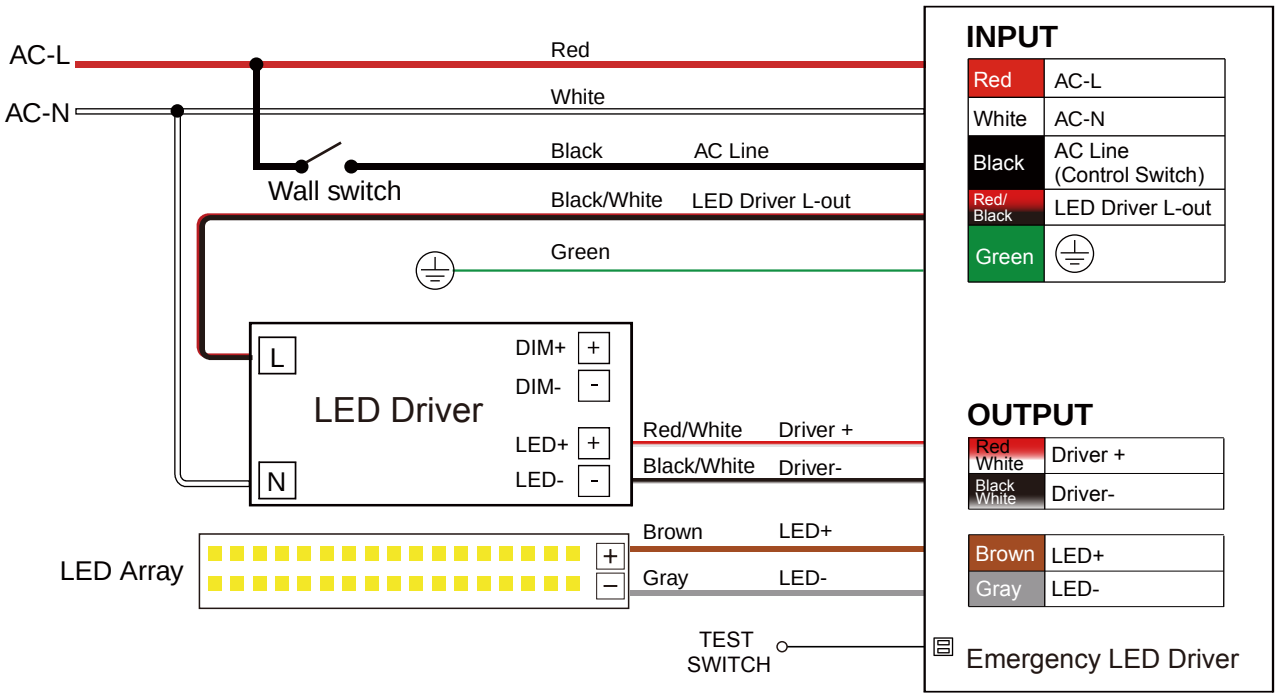
Skinny Film Test Switch:



2 In 1 Plastic Test Switch:



WIRING DIAGRAM



OPERATION

AC Mode: AC power is present, the LED load from the LED driver is normal power supply, the maximum current of LED Driver does not exceed 4A, the emergency driver is charging in a standby mode.

Emergency Mode: When AC power fails, the emergency driver automaticaly switches to emergency mode, operating the LEDs for a minimum of 90 minutes. When AC power is restored, the emergency driver switches the system back to the normal mode and restores to the battery charging state.

EMERGENCY LED DRIVER

BLUETOOTH VERSION:

For detailed information, please refer to the Bluetooth documentation.

OPERATION

Normal Mode: AC power is present. The AC driver operates the LED load as designed. The emergency driver is charging in a standby mode. The charging indicator will be lit, showing that the battery is charging.

Emergency Mode: When AC power fails, the emergency driver automatically switches to emergency mode, operating the LEDs for a minimum of 90 minutes. When AC power is restored, the emergency driver switches the system back to the normal mode and restores to the battery charging state.

SELF-DIAGNOSTIC TEST

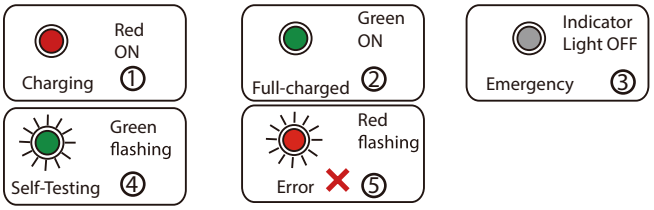
This unit contains a controlmonitor circuit that if enabled automatically performs a 30-second discharge test once a month and a full 90-minute discharge test once a year. During routine testing, the self-testing emergency driver simulates an AC power failure causing the unit to automatically switch to emergency mode. The unit wil monitor the operation of the LED load, battery voltage, and emergency duration. if the emergency system functions properly,then the unit will return to normal mode. Should the unit detect any problems, the indicator light will fiash per failure condition (see Troubleshooting Guide) until the condition has been corrected and the unit passes the next test.

SWITCH VERSION INSTRUCTIONS



Indicator Light Introduction

① Red/ON: Charging
② Green/ON: Full-charged
③ Indicator light OFF: Discharging (emergency mode)
④ Green/Flashing: Self-Testing
⑤ Red Flashing:Error
Note: See Trouble Shooting Guide



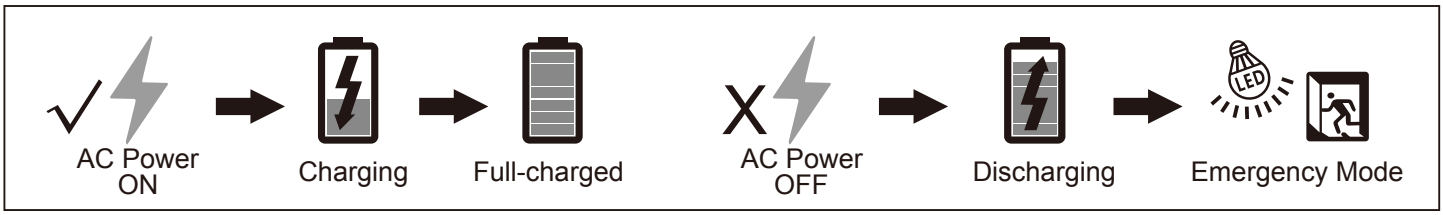
TEST SWITCH INDICATOR STATUS & TROUBLE SHOOTING GUIDE

The charge indicator will be lit Solid Red when charging, and will be lit Solid Green when fully charged and in the standby mode. The indicator will flash Green when self-testing. If a problem is encountered during the test cycle, the indicator will flash Red, according to the diagnostic codes below:

Mode	LED Indicators Status	Error	EM Driver Status / Mode	Corrective Action
Normal Mode	Solid Green	None	Battery fully charged/System OK	/
	Solid Red	None	Battery is charging	/
	Both LEDs OFF	None	In EM mode or emergency run-time is ended	/
	Flashing Green	None	Self-Diagnostic test underway	/
Fault Mode	Flashing Red	Battery	Battery not connected	check battery switch or connection.
			Battery failure	Contact after-sales.
		Hardware issue		1. Check input AC mains wiring of Unswitched Hot,Neutral and Ground. 2.Check light connect. 3.Contact after-sales.

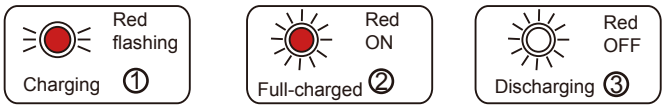
EMERGENCY LED DRIVER

MANUAL TEST				
Test Mode	**Description**	**Action**	**Status**	**Quit**
Fast Test	Quick discharge test	Press the test button 1 time	LED load will light up for 5s	/
Monthly	30-second test	Press the test button 3s continuously	LED load will light up for 30s	Hold the test button/switch for 1s
Annually	90-minute test	Press the test button 6s continuously	LED load will light up for 90 minutes	Hold the test button/switch for 1s



Indicator Light Introduction

① Red/Flashing: Charging
② Red/ON: Full-charged
③ Red/OFF: Discharging(emergency mode)



SLEEP MODE

- In EM mode, press remote controller OFF button to cut off emergency output and enter sleep mode.
- In sleep mode, the battery is completely disconnected, and the small leakage current can ensure longer shelf time.
- The Automatic Power Activate feature will reactivate the unit upon installation and first power-up.

TESTING AND MAINTENANCE

Press the remote controller ON button to cut the power to the AC driver and force the unit into emergency mode. The LED load is now being lit by the emergency driver. Press the remote controller OFF button, the fixture returns to normal mode. Switch off the circuit breaker to simulate a full power outage.
Initial Testing – Allow the unit to charge approximately 1 hour, then conduct a short discharge test. Allow a 24 hour charge before conducting a one hour test.
The emergency driver is a maintenance free unit, however, periodic inspection and testing is required. NFPA 101, Life Safety Code, outlines the following schedule:
1. Visually inspect the indicator light monthly. It should be illuminated when AC power is applied.
2. Monthly-Conduct a 30 second discharge test by depressing the remote controller ON button or by switching off the mains power every month.
3. Annually-Conduct a 90 minutes discharge test once per year. The unit should operate as intended for the duration of the test.

"Written Records of the Testing should be kept by the owner for inspection by the authority having jurisdiction."

SERVICING SHOULD BE PERFORMED BY QUALIFIED PERSONNEL.

EMERGENCY LED DRIVER

INSTRUCTION MANUAL

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:



CAUTION:Before installation, make certain the AC power is off.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- CAUTION: This emergency LED driver provides more than one power supply output source.To reduce the risk of electrical shock, servicing of this equipment should be performed by qualified personnel only.
- CAUTION: Do not connect the battery pack connector until all other wiring are complete and AC power is on.
- CAUTION: This emergency LED driver requires an un-switched AC power source of 277-480Vac,50/60Hz .The AC driver must be on the same branch circuit as the emergency LED driver. Ambient temperature:Li-ion:0°C to 50°C.
- CAUTION: The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition, void warranty, and result in non-compliance with UL specifications.
- CAUTION: Use with grounded,UL listed,dry,or damp location-rated fixtures,and the case should be grounded.Use only within an enclosure.
- CAUTION: Do not use outdoors.Do not mount near gas or electric heaters.
- CAUTION: Do not attempt to service the battery. A sealed, non-maintenance battery is used that is not field replaceable. Replace the entire unit when necessary.
- CAUTION: Do not use this equipment for other than its intended use. The emergency LED driver is not for in an air-handling fixture.
- CAUTION: The emergency LED driver should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- IMPORTANT: Please charge the battery consistently for >24 hours for the first time usage to activate the whole battery cells of discharging/charging duration.
- The equipment is intended for ordinary locations and for permanent installation into one or more Listed emergency luminaires.
- IMPORTANT: Customers are advised to charge emergency LED drivers 24 hours every 6 months during storage, which could be stocked for 1 year at most. If customers don't install and recharge for more than 1 year, the batteries may be damaged. This is not covered in the warranty, and we would charge for replacement.
- IMPORTANT: Lighting fixture manufacturers, electricians, and end-users need to ensure product system compatibility test before using and final installation.
- The instruction manual shall include the word "CAUTION" and the following statement or equivalent "Verify that all replacement lamp types marked on the installed luminaire are also identified as suitable for use with this emergency battery pack."

c UL US LISTED

THIS PRODUCT CONTAINS A RECHARGEABLE BATTERY.
THE BATTERY MUST BE RECYCLED OR DISPOSED OFF PROPERLY.