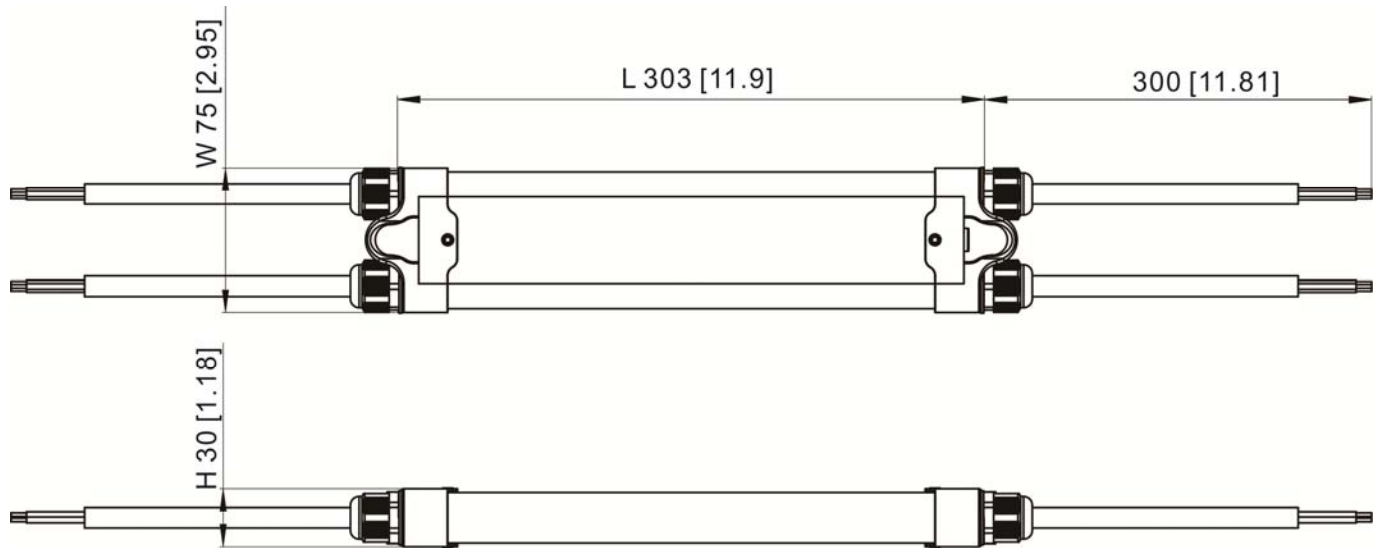


UFO EMERGENCY KIT**184401-UFO-MVD(-XXX)****IP67 CE****FEATURES**

1. Quick wiring and installation
2. Auto dimming (0/1-10V) of connected load up to 10 times of emergency power
3. High voltage DC output
4. Constant emergency power output
5. Emergency output is convertible between 90 and 180 minutes
6. Auto Test
7. Extremely slim aluminium housing and light in weight, built-in battery
8. IP67 rating, suitable for outdoor and wet applications

CHARACTERISTICS

Type	184401-UFO-MVD	
Lamp type	UFO, High Bay or other waterproof LED luminaires	
Rated voltage	220-240VAC 50/60Hz	
Output voltage	300VDC	
Rated current	0.04A	
Rated power	8.8W	
Power Factor	0.5	
Max. Output power	20W	
Max. power of 0-10V dimming load	200W (The luminaire’s minimum dimming power should be less than or equal to the Max. Output power of LED emergency driver.)	
Battery	Li-ion	
Charging time	24 Hours	
Discharge time	90 Minutes at full output power (or 180 minutes at half of output power)	
Charging current	500mA	
Life time	5 Years	
Charging cycles	>1000	
Operation temperature	0-50°C(32°F-122°F)	
Efficiency	80%	
Abnormal protection	Over load, open circuit, inrush, over temperature, charging and discharging, short circuit protection	
Wire	0.75-1.5mm ²	
EMC/ standard	EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3	
Safety standard	EN 61347-1, EN 61347-2-7	
Meas. mm [inch]	L303 [11.9] x W75 [2.95] x 30 [1.18]mm	
Purchase No. description		
184401-UFO	- MVD	- XXX
20W or below	Input 220-240VAC Dimmable	Code No. + emergency power



Item No.	L mm [inch]	W mm [inch]	H mm [inch]
184401-UFO-MVD	303 [11.9]	75 [2.95]	30 [1.18]

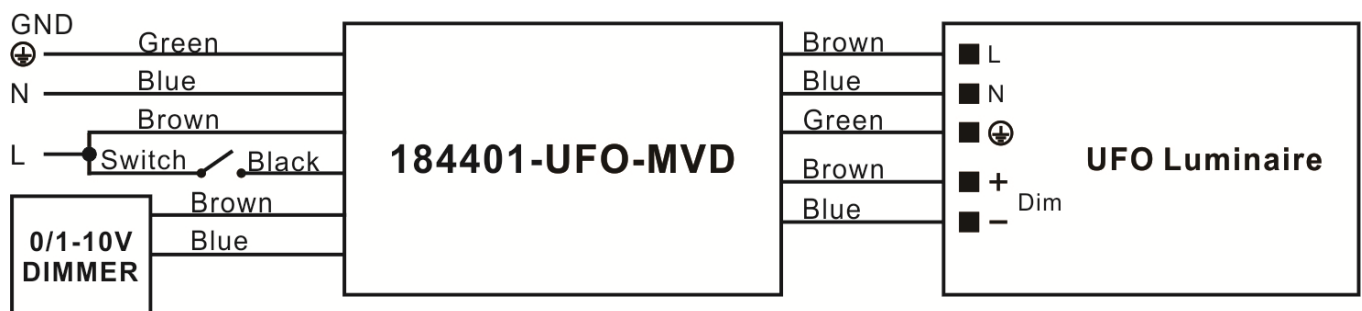
Dimension unit: mm [inch]

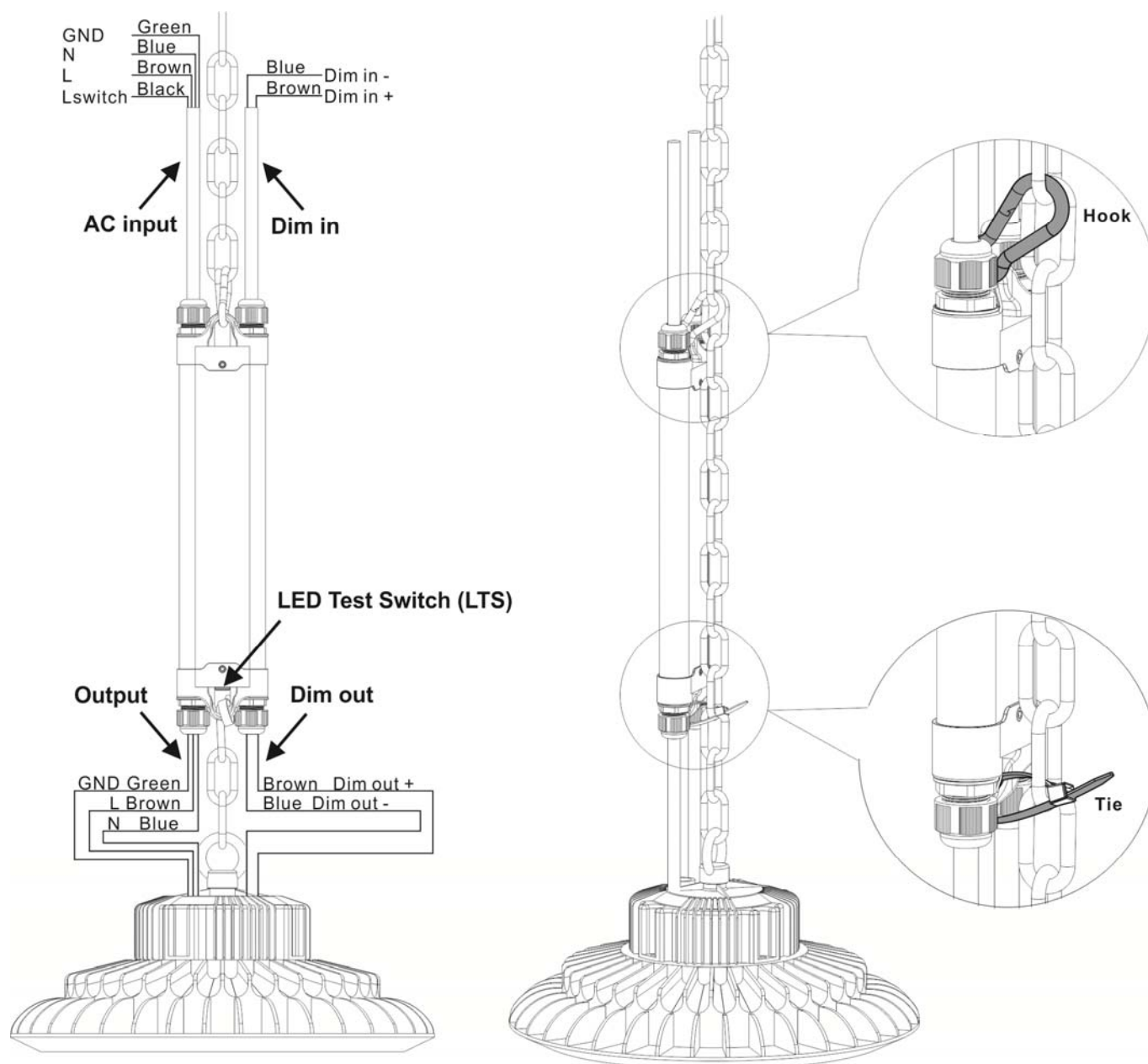
Tolerance: ± 1 [0.04]

WIRING DIAGRAM

The UFO luminaire must have a 0/1-10V dimmable driver when its power is bigger than the max. Output power of the UFO emergency Driver.

For 0/1-10V Dimmable UFO





OPERATION/TESTING/MAINTENANCE**OPERATION**

When AC power is applied, the LED test switch (LTS) is illuminated, indicating that the batteries are being charged. When AC power fails, the 184401-UFO-MVD automatically switches to emergency power, operating the lighting load at rated emergency power. During power failure, the LTS will be off. When the AC power is restored, the 184401-UFO-MVD switches the system back to normal mode of operation and resumes battery charging. The minimum emergency operation time is 90 minutes. The charging time for a full discharge is 24 hours. A short term discharge test may be conducted after the 184401-UFO-MVD has been charging for 1 hour. Charge for 24 hours before conducting a long term discharge test.

EMERGENCY OUTPUT CONVERSION

The default emergency time is min. 90 minutes. In the normal mode, LTS slowly blinks - ON for 1 second and OFF for 1 second, while the battery is being charged; After the battery is fully charged, the LTS stays ON. In the normal mode, Press and hold the LTS for min. 5 seconds, release it, and within 1 second to press and hold the LTS for min. 5 seconds again, which can halve the emergency power and extend the emergency time to 180 minutes. In this option, when the battery is fully charged, the LTS blinks 3 times every 2 seconds.

TESTING AND MAINTENANCE

The following Periodic testing is recommended to ensure the system is working correctly.

1. Visually inspect the LED test switch (LTS) monthly. It should be illuminated when AC power is applied.
2. Conduct a 60-second discharge test by switching off the emergency breaker every month.
3. Conduct a 90-minute discharge test once per year.

AUTO TEST

The 184401-UFO-MVD has an Auto Test feature which saves cost by reducing the need for manual testing.

1. Initial Auto Test

When the system is connected properly and powered on, the 184401-UFO-MVD will perform an initial Auto Test. If any abnormal conditions exist, the LTS will blink quickly. Once the abnormal condition is corrected, the LTS will function correctly.

2. Preprogrammed Scheduled Auto Test

a) The unit will conduct the first Monthly Auto Test after 24 hours and up to 7 days after initial power on. Then monthly tests will be performed every 30 days.

b) Annual Auto test will occur every 52 weeks after initial power on.

- Monthly Auto Test

The Monthly Auto Test shall be executed every 30 days, and will test;

Normal to emergency transfer function, emergency, charging and discharging conditions are normal.

Monthly test time is approximately 60 seconds.

- Annual Auto Test

Annual Auto Test will occur every 52 weeks after the initial 24 hours full charge, and will test;

Proper initial battery voltage, 90-minute emergency operation and acceptable battery voltage at the end of the full 90-minute test.

If the Auto Test is interrupted by a power failure, a full 90-minute Auto Test will occur again 24 hours after the power is restored. If the power failure causes the battery to fully discharge, the product will restart the Initial Auto Test and Preprogrammed Scheduled Auto Test.

MANUAL TEST

1. Press the LTS 2 times continuously within 3 seconds to force a 60-second monthly test. After the test is complete, the next (30-day) monthly test will count from this date.

2. Press the LTS 3 times continuously within 3 seconds to force a 90-minute annual test. After the test is completed, the next (52-week) annual test will count from this date.

3. During any manual test, press and hold the LTS for greater than 3 seconds to terminate a manual test. The Preprogrammed Scheduled Auto Test will not change.

LED TEST SWITCH (LTS) CONDITIONS

Green LTS On: Battery Fully Charged - Proper Normal mode

Green LTS Slow Blinking: Battery in Charge mode

Green LTS Gradual Change: In Testing mode

Red LTS On: Battery Failure

Red LTS Blinks 2 Times every 2 Seconds: Output (Load) Failure

LTS OFF: Power Failure

SAFETY INSTRUCTIONS

1. To prevent electric shock, switch off the mains power supply until installation is complete and AC input power is supplied to this product.
2. This product requires an un-switched AC power supply of 220-240V, 50/60Hz.
3. Make sure all connections are in accordance with the National or Canadian Electrical code and any local regulations.
4. To reduce the risk of electrical shock, disconnect both normal power, emergency power supplies and unit connector of this product before servicing.
5. For emergency operation of LED, incandescent, fluorescent fixtures and screw-base lamps.
6. Use this product in 0°C minimum, 50°C maximum ambient temperatures (Ta). It can provide minimum 90 minutes illumination under the emergency mode.
7. This product is suitable for use in dry or damp locations. Do not use outdoors. Do not mount it near gas, heaters, air outlets or other hazardous locations.
8. Do not attempt to service the batteries. A sealed, non-maintenance battery is used that is not field replaceable. Contact the manufacturer for information or service.
9. As this product contains batteries, please be sure to store it in an indoor environment of -20°C ~30°C. It must be fully charged and discharged every 6 months from the date of purchase until it is officially put into use, then recharged 30-50% and stored for another 6 months, and so on. If the battery is not used for more than 6 months, it may cause excessive self-discharge of the battery, and the resulting reduction of battery capacity is irreversible. For products with separate battery and emergency module, please disconnect the connection between battery and module for storage. Due to its chemical properties, it is a normal situation for the battery capacity to decline naturally during use. Users should take this into account when choosing products.
10. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and void warranty.
11. Do not use this product for other than intended use.
12. Installation and service should be performed by qualified service personnel.
13. This product should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
14. Ensure product compatibility before final installation. Make sure the polarity is correct when connecting the batteries. Wiring should be strictly in accordance with the wiring diagram, wiring errors will damage the product. A case of safety accident or product failure caused by users' illegal operation does not belong to the scope of customer complaint acceptance, compensation or product quality assurance.