

EMERGENCY BALLAST FOR TYPE A+B LED LAMP

184000 A1



FEATURES

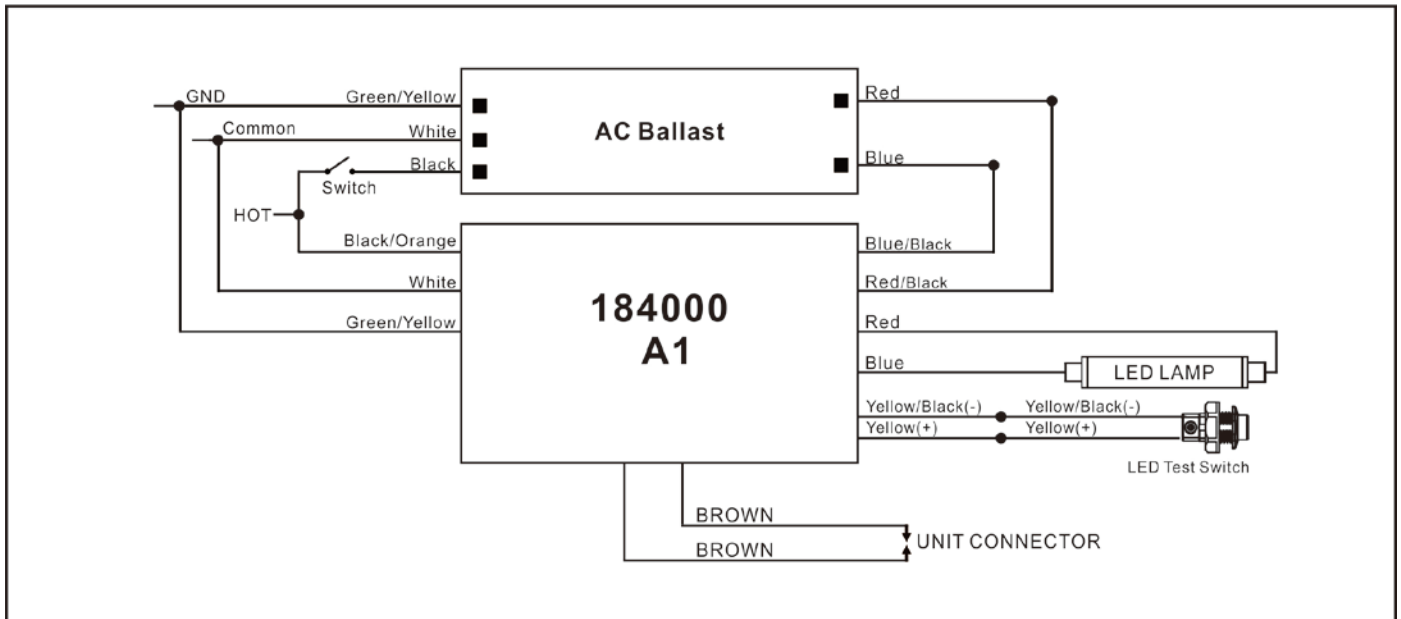


- Perfectly compatible with most T5, T8, compact, PL and circular Type A and Type A+B LED Retrofit lamps
- Built-in high temperature Ni-Cd battery pack

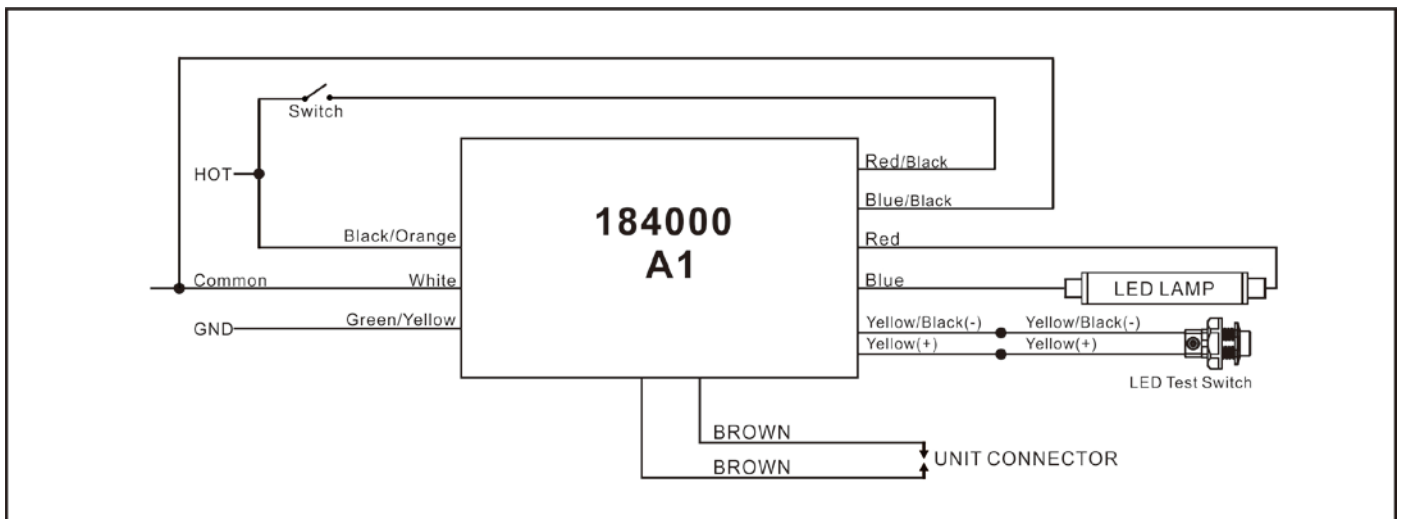
CHARACTERISTICS

Type	184000 A1
Lamp type	Type A and Type A+B LED lamps
Rated voltage	120-277VAC
Rated current	0.05A
Rated power	2.0W
Operation frequency	320kHz \geq f \geq 50kHz
Power factor	0.5
Battery	Ni-Cd
Charging time	24 Hours
Discharge time	>90 Minutes
Charging cycles	\geq 500
Charging current	0.11A
Operation temperature	0-50°C (32°F-122°F)
Output power	Max.4W
Efficiency	80%
Abnormal protection	Inrush, charging and discharging
Wire	18AWG/0.75 mm ²
EMC& FCC IC standard	EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3; FCC part 15; ICES-005
Safety standard	EN 61347-1, EN 61347-2-7, UL924, CSA C.22.2 No. 141
Meas. mm [inch]	L242 [9.53] x W52 [2.05] x H26 [1.02] Mounting Center: 230 [9.06]

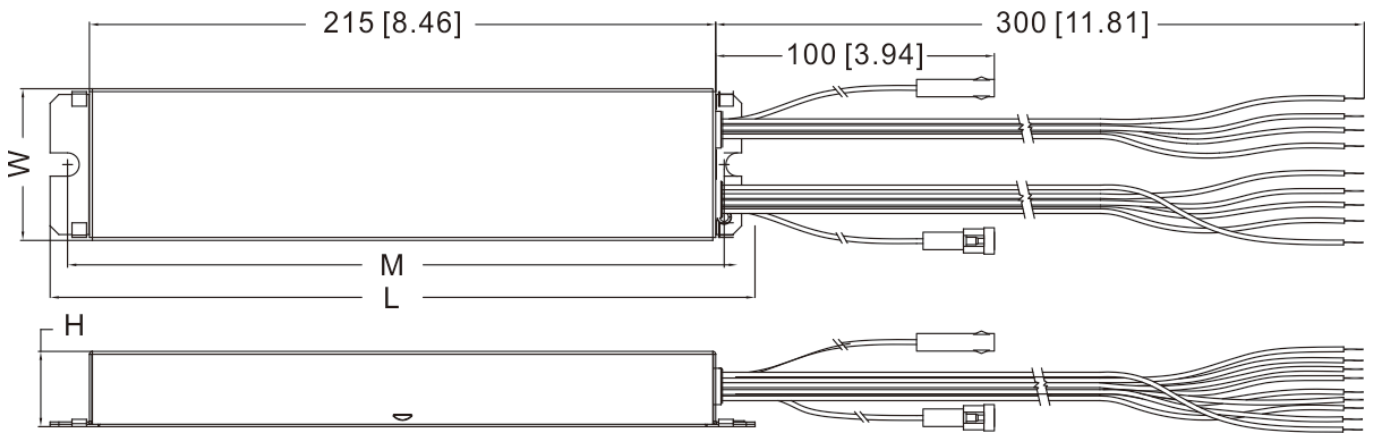
FOR TYPE A & TYPE A+B LED LAMP



FOR TYPE A+B LED LAMP



DIMENSIONS

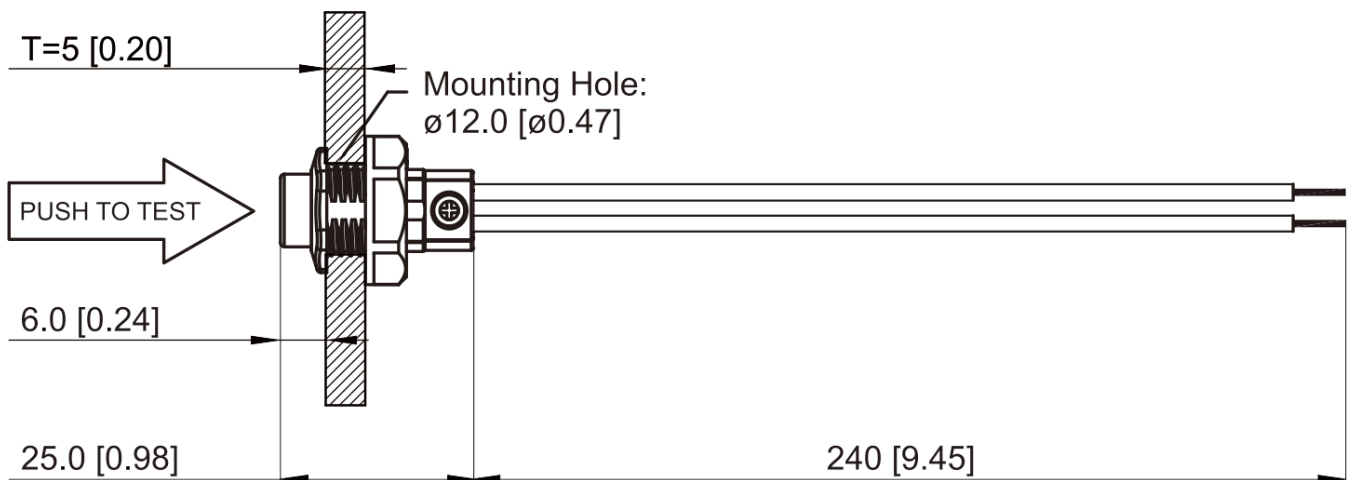


Item No.	L mm [inch]	M mm [inch]	W mm [inch]	H mm [inch]
184000 A1	242 [9.53]	230 [9.06]	52 [2.05]	26 [1.02]

Notes:

1. Dimension unit: mm [inch]
2. Dimension tolerance: ± 1 [0.04]

LED TEST SWITCH



OPERATION/TESTING/MAINTENANCE

OPERATION

When AC power is applied, the LED test switch is illuminated, indicating that the batteries are being charged. When AC power fails, the 184000 A1 automatically switches to emergency power, operating the lighting load at rated emergency power. During power failure, the LED test switch will be off. When the AC power is restored, the emergency 184000 A1 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 184000 A1 has been charging for 1 hour. Charge for 24 hours before conducting a long term discharge test.

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 30-second discharge test by switching off the emergency breaker every month.
3. Conduct a 90-minute discharge test once per year..

AUTO TEST

The 184000 A1 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 184000 A1 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 30~60 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

- Press the LTS one time to simulate emergency mode.
- Press the LTS 2 times continuously within 3 seconds to force a monthly test. After the test is completed, the next (30-day) monthly test will count from this date.
- Press the LTS 3 times continuously within 3 seconds to force a annual test. After the test is completed, the next (52-week) annual test will count from this date.
- During any manual test, press and hold the LTS for greater than 3 seconds to terminate a manual test. The Preprogrammed Scheduled Auto Test time will not change.

LED TEST SWITCH CONDITIONS

LTS Slow Blinking: Normal Charging

LTS On: Battery Fully Charged - Normal Condition

LTS Off: Power Failure

LTS Gradual Change: In Testing Mode

LTS Quickly Blinking: Abnormal Condition - Corrective Action Required

1. To prevent electric shock, switch off the mains power supply until installation is complete and AC power is supplied to this product.
2. This product requires an un-switched AC power supply of 120-277V, 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 and emergency power supplies and connector of this product before servicing.
5. It can provide minimum 90 minutes illumination under the emergency mode.
6. The 184000 A1 are UL Listed for field installation, and use with grounded, UL Listed, damp location rated fixtures.
7. This product is suitable for use in dry or damp locations. Do not mount it near gas, heaters, air outlets or other hazardous locations.
8. Use this product in 0°C minimum, 50°C maximum ambient temperatures (Ta).
9. 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.
10. 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.
11. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and void warranty.
12. Do not use this product for other than intended use.
13. Installation and service should be performed by qualified service personnel.
14. This product should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
15. Ensure product compatibility before final installation. 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.