

PARALLELEABLE MODULAR INVERTER

184804

FEATURES

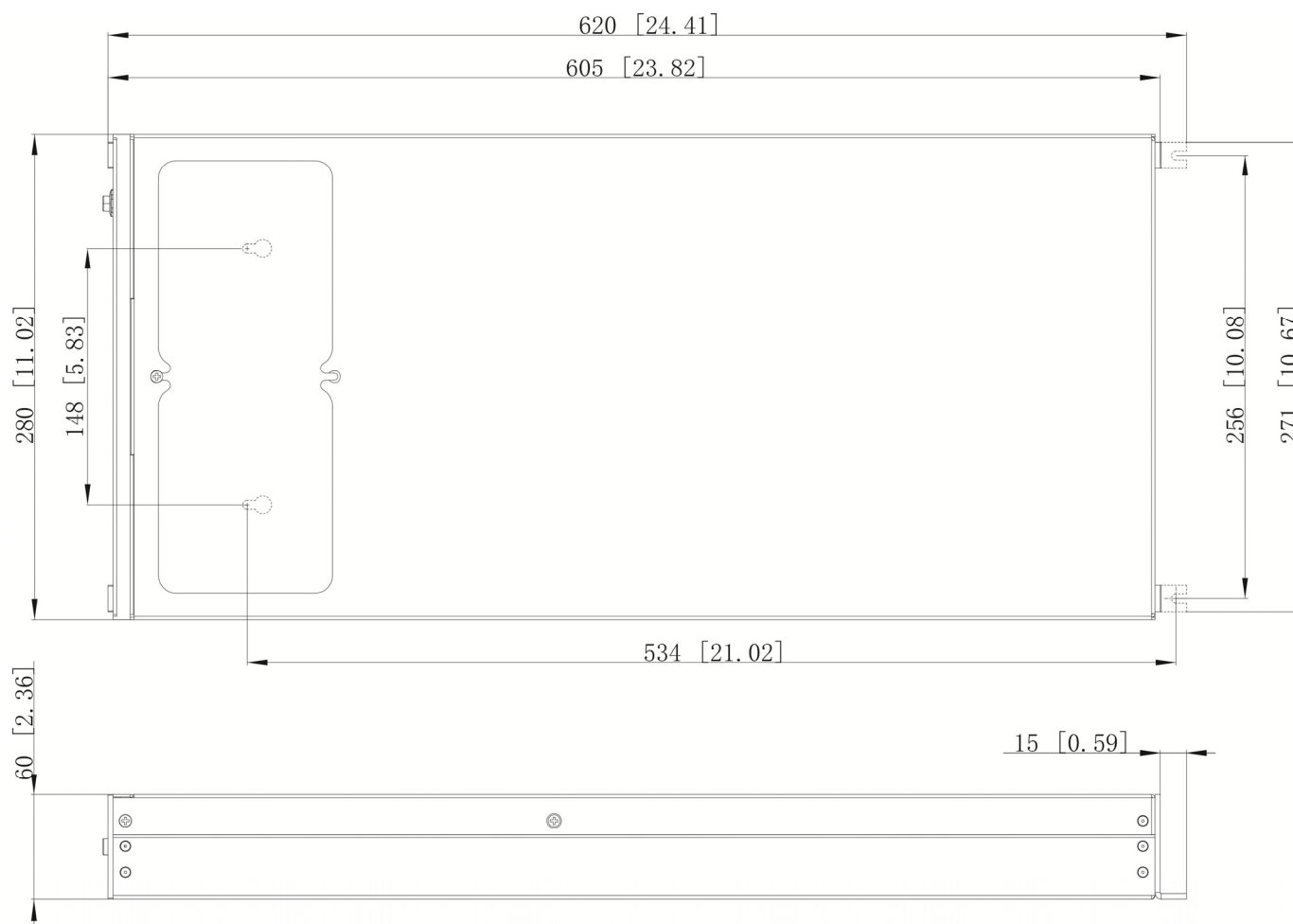


1. Pure sinusoidal AC output
2. Patented APD technology - Auto Preset Dimming (0-10V) the connected load in emergency
3. Modular design, flexibly parallelable combination from 1 to 5 modules, Max. emergency output power up to 2000W
4. Output voltage auto setting according to different input voltages
5. Auto Test
6. Extremely slim aluminum housing, light weight of 11.5Kgs (25.4Lbs)
7. Suitable for indoor, dry and damp applications



CHARACTERISTICS

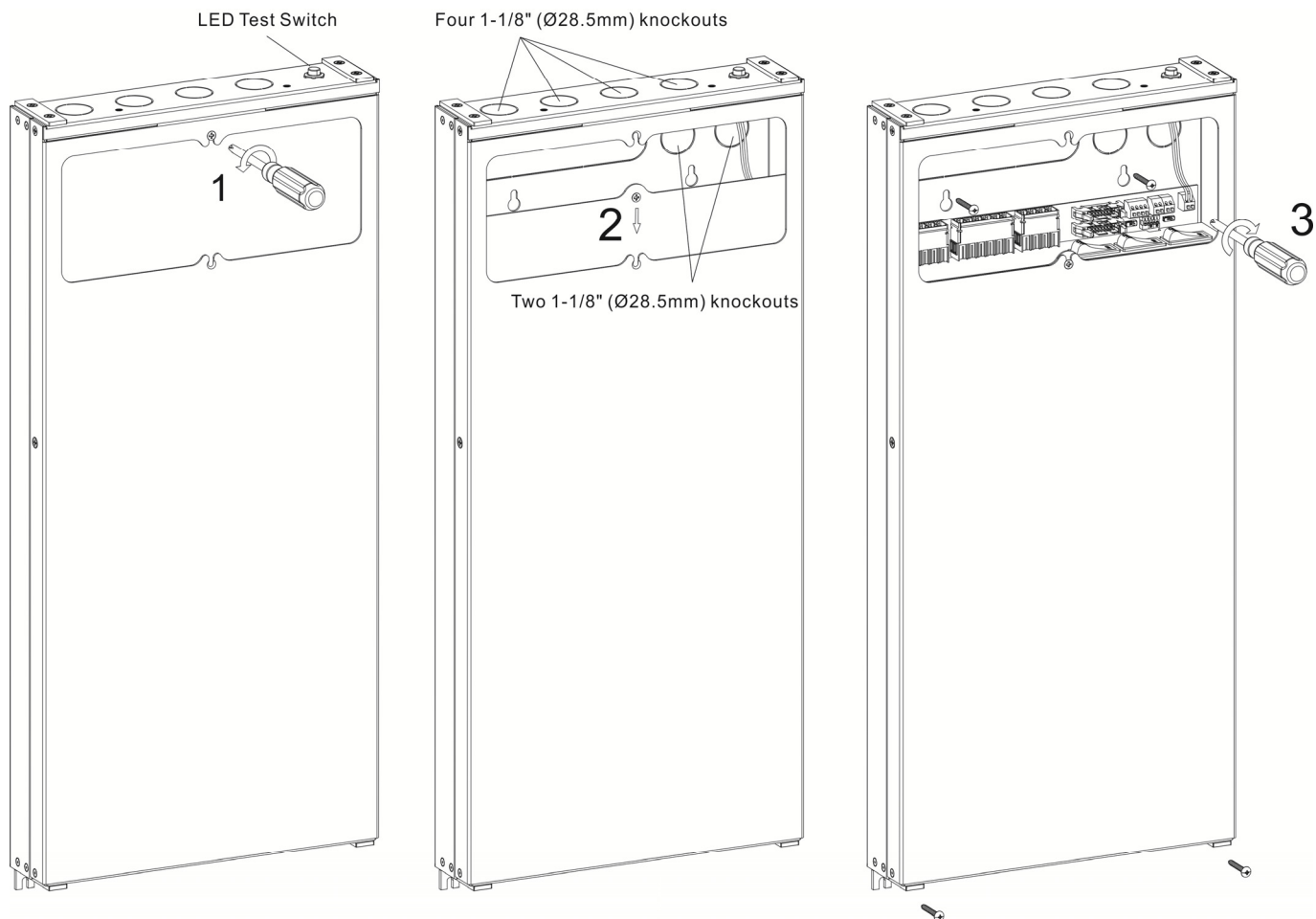
Type	184804
Lamp type	LED, fluorescent or incandescent bulbs, tubes and lighting fixtures
Rated voltage	120-277VAC 50/60Hz
Rated current	1A@120V; 0.55A@277V
Rated power	65W
Load power factor	0.9 leading to lagging
Output voltage	120-277VAC 50/60Hz
Output power	400W
Max. power of 0-10V dimming load	2000W@120V; 4000W@277V
Battery	LiFePO ₄
Charging time	24 Hours
Discharge time	90 Minutes
Charging current	1.44A
Life time	5 years
Charging cycles	>1000
Operation temperature	0-50°C (32°F-122°F)
Efficiency	90%
Abnormal protection	Over voltage, over current, Inrush current limiting, over temperature, short circuit, open circuit
Wire	10-18AWG/0.75-6.0mm 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]	L605 [23.82] x W280 [11.02] x H60 [2.36] Mounting center: 534 [21.02]

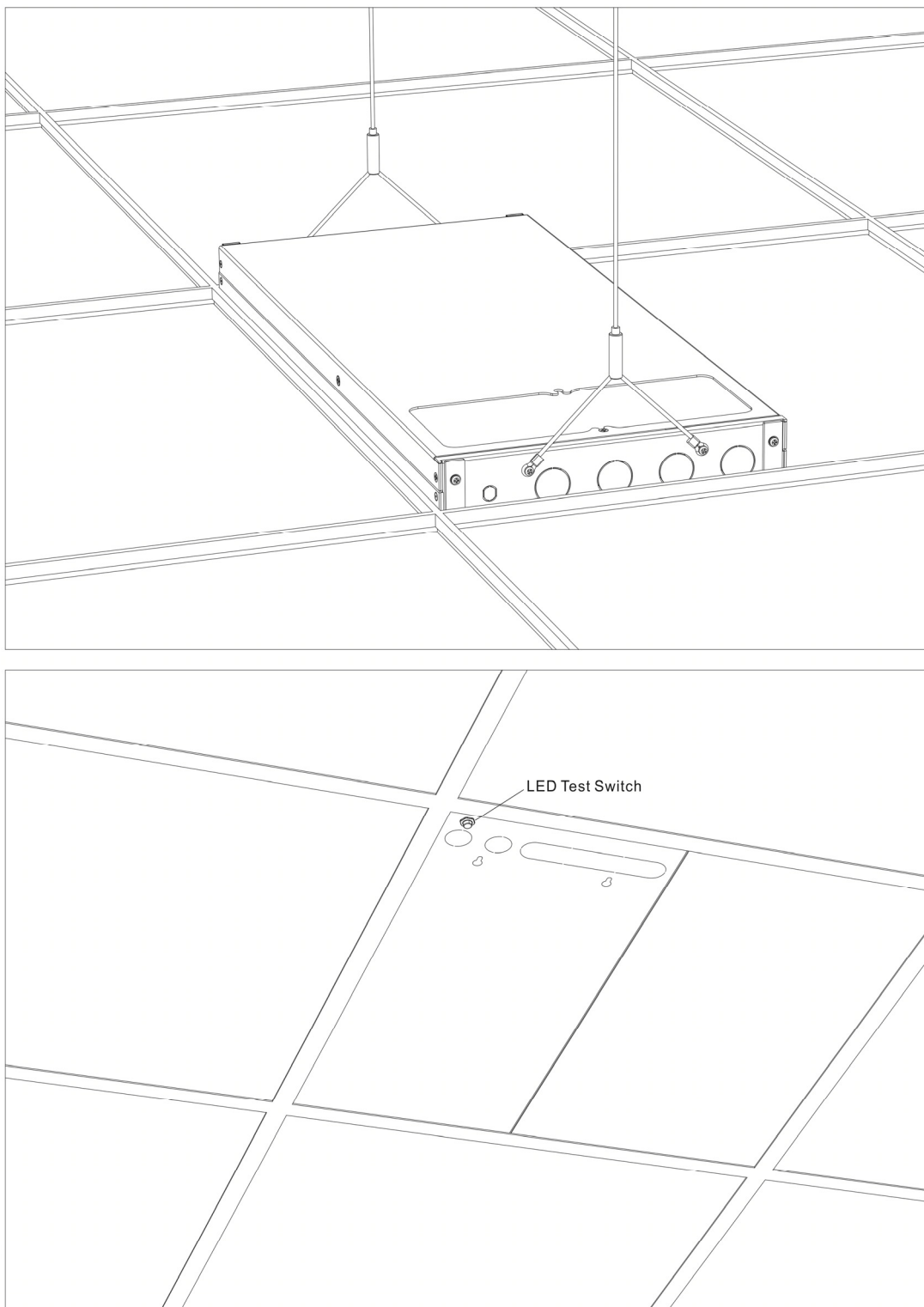
DIMENSIONS**184804**

Item No.	L mm [inch]	M mm [inch]	W mm [inch]	H mm [inch]
184804	605 [23.82]	534 [21.02]	280 [11.02]	60 [2.36]

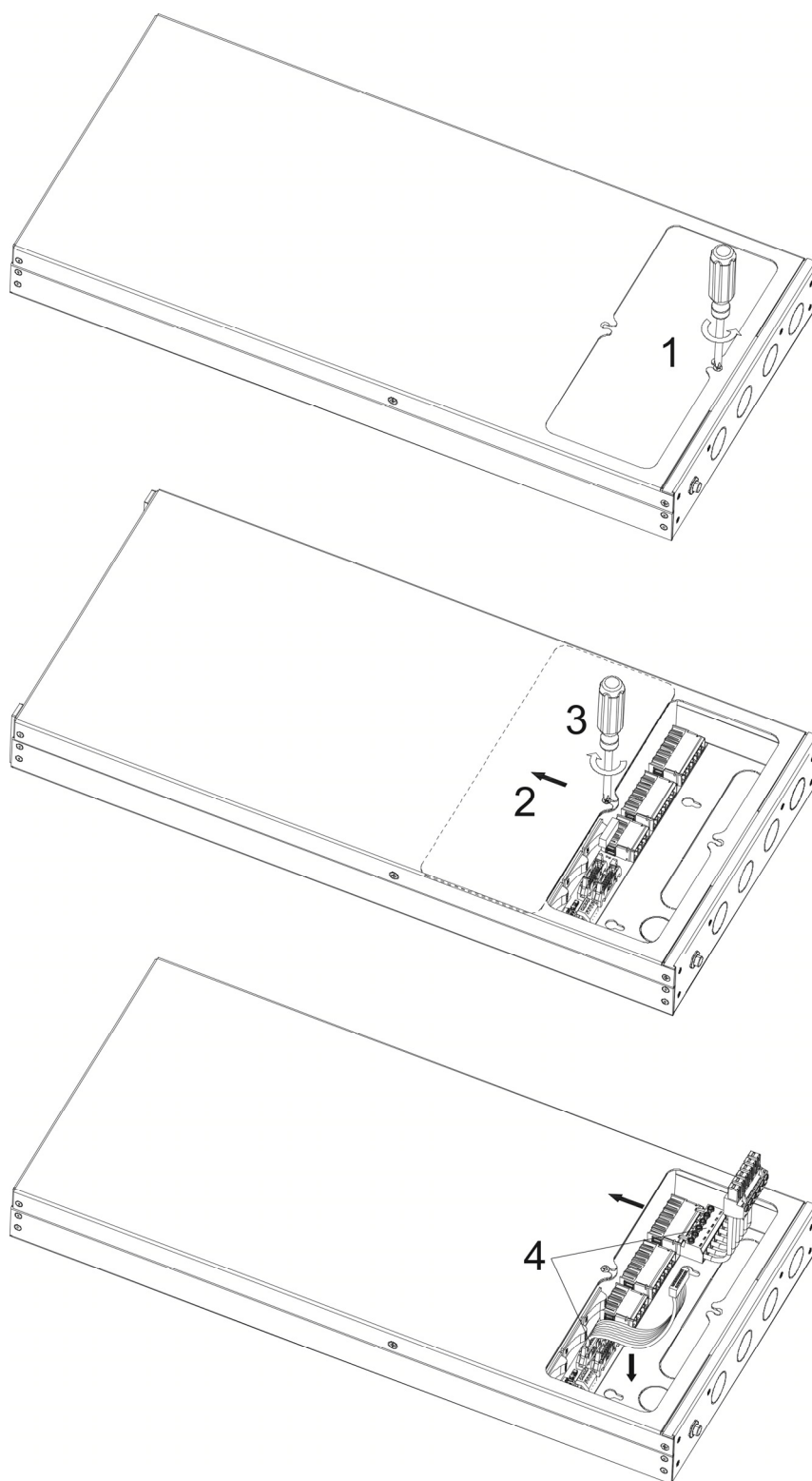
Dimension unit: mm [inch]

Tolerance: +/-1 [0.04]

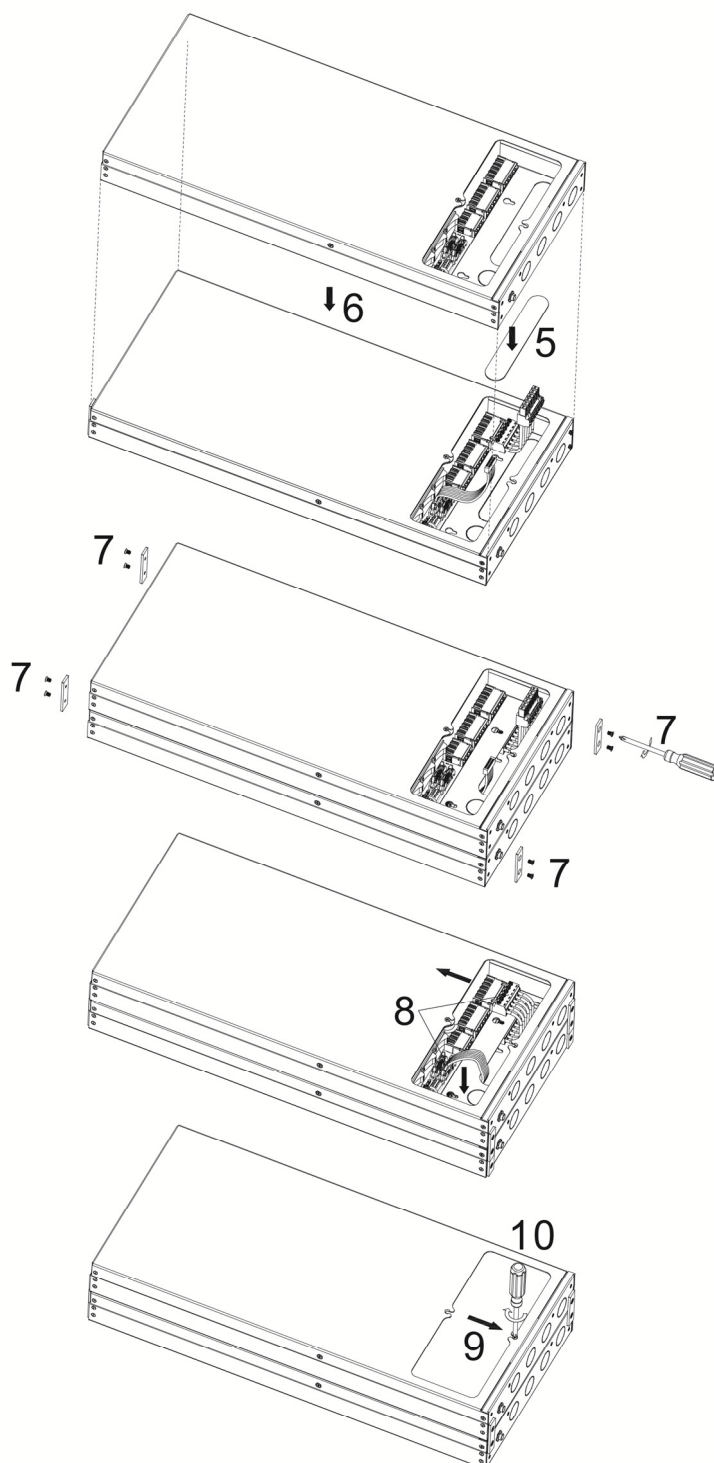
SURFACE MOUNTING

CEILING GRID MOUNTING

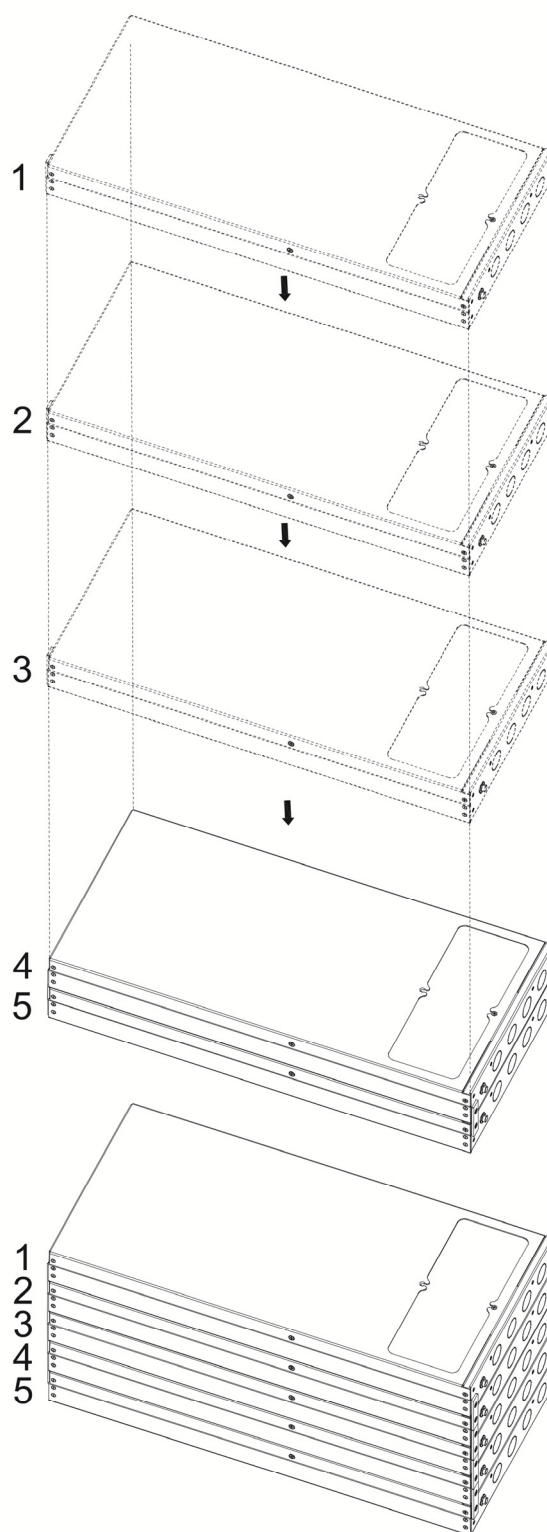
PARALLELEABLE MOUNTING 1/3



PARALLELEABLE MOUNTING 2/3



PARALLELEABLE MOUNTING 3/3

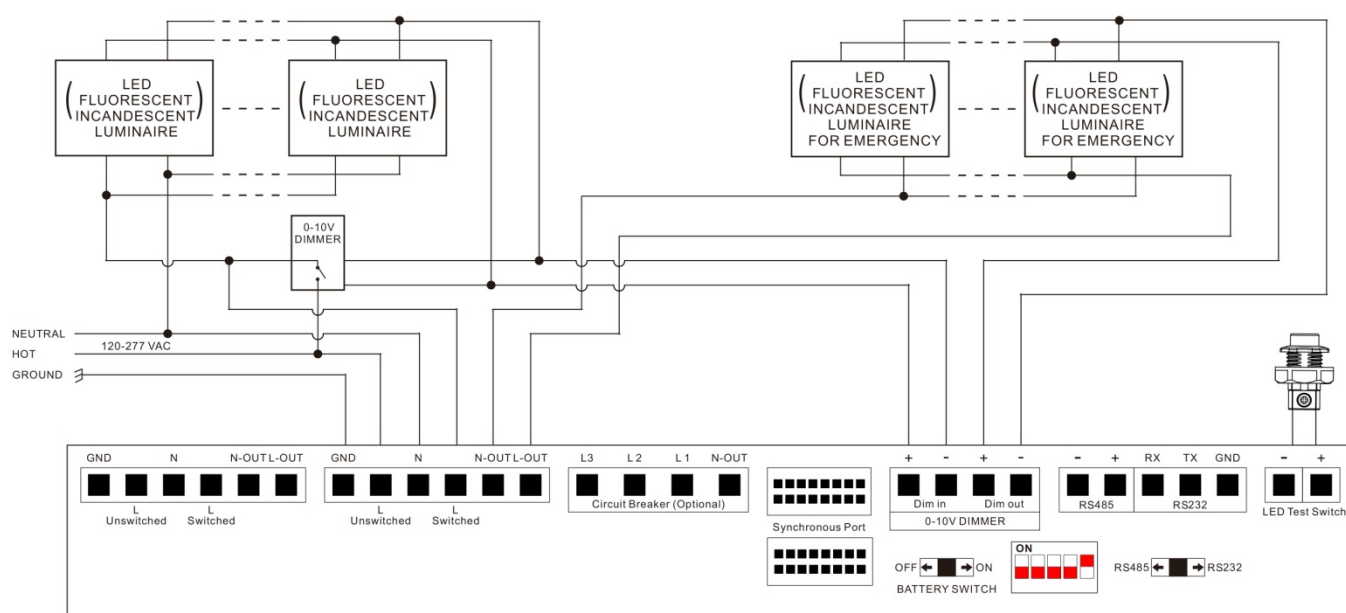


WIRING DIAGRAM

SINGLE 184804 FOR 0-10V DIMMABLE EMERGENCY LIGHTING SYSTEM

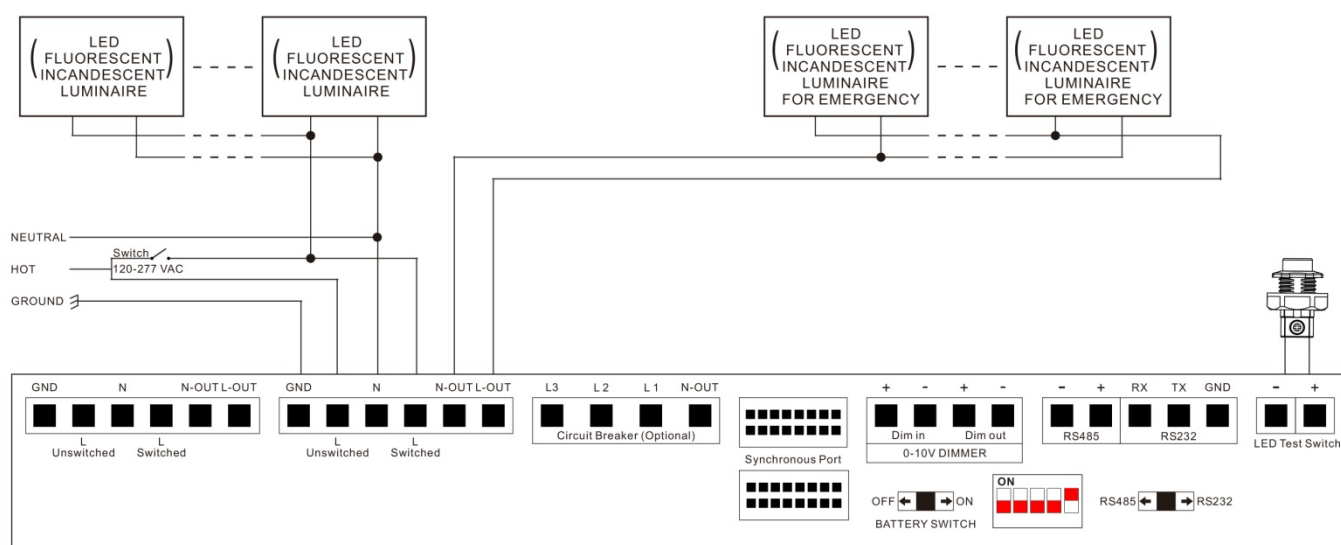
MAX. DIMMABLE LOAD = 2000W @ 120V

4000W @ 277V



SINGLE 184804 FOR NON-DIMMABLE EMERGENCY LIGHTING SYSTEM

MAX. LOAD = 400W

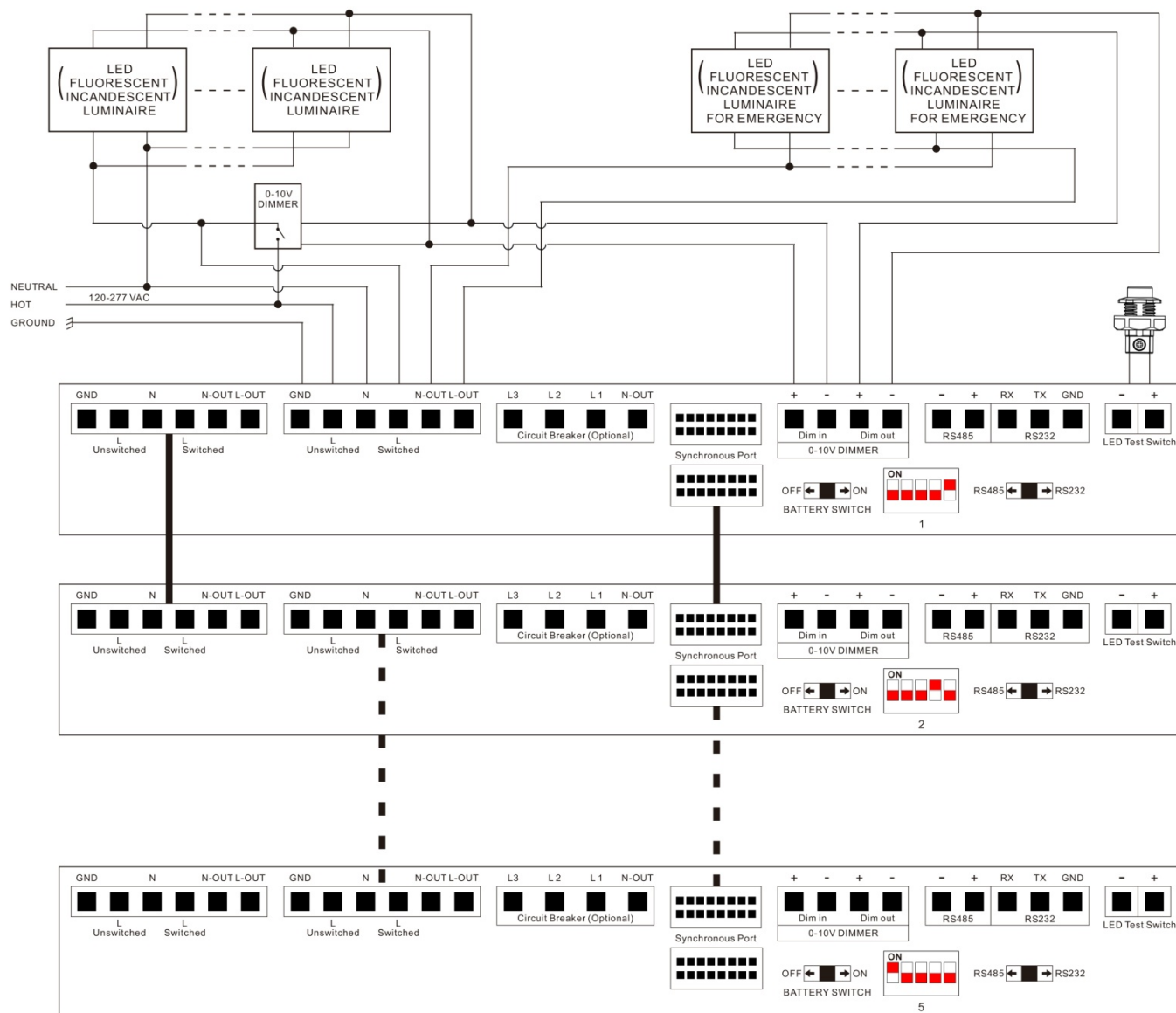


WIRING DIAGRAM

PARALLELABLE 184804 FOR 0-10V DIMMABLE EMERGENCY LIGHTING SYSTEM

MAX. DIMMABLE LOAD = 2000W @ 120V

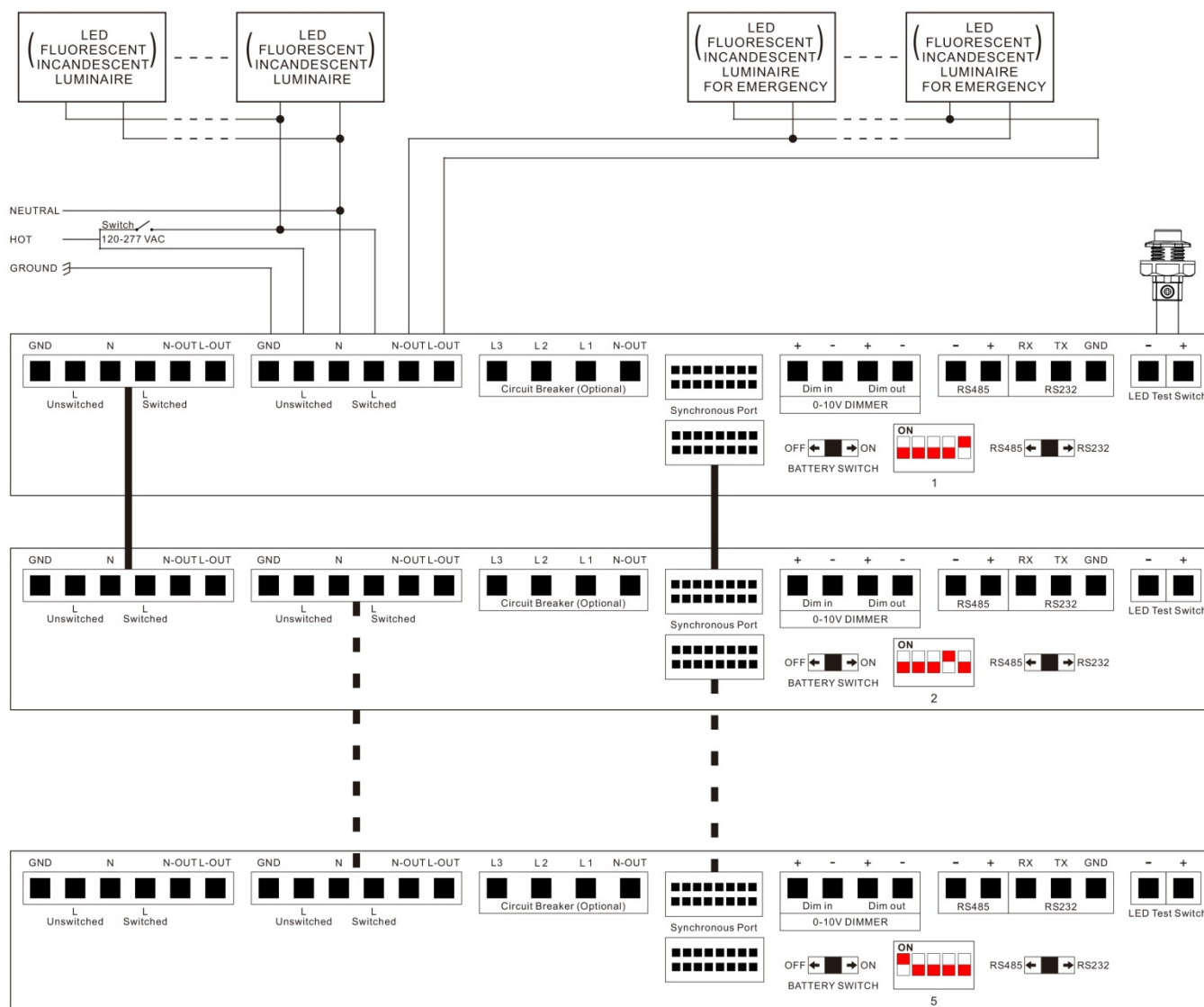
4000W @ 277V



WIRING DIAGRAM

PARALLELEABLE 184804 FOR NON-DIMMABLE EMERGENCY LIGHTING SYSTEM

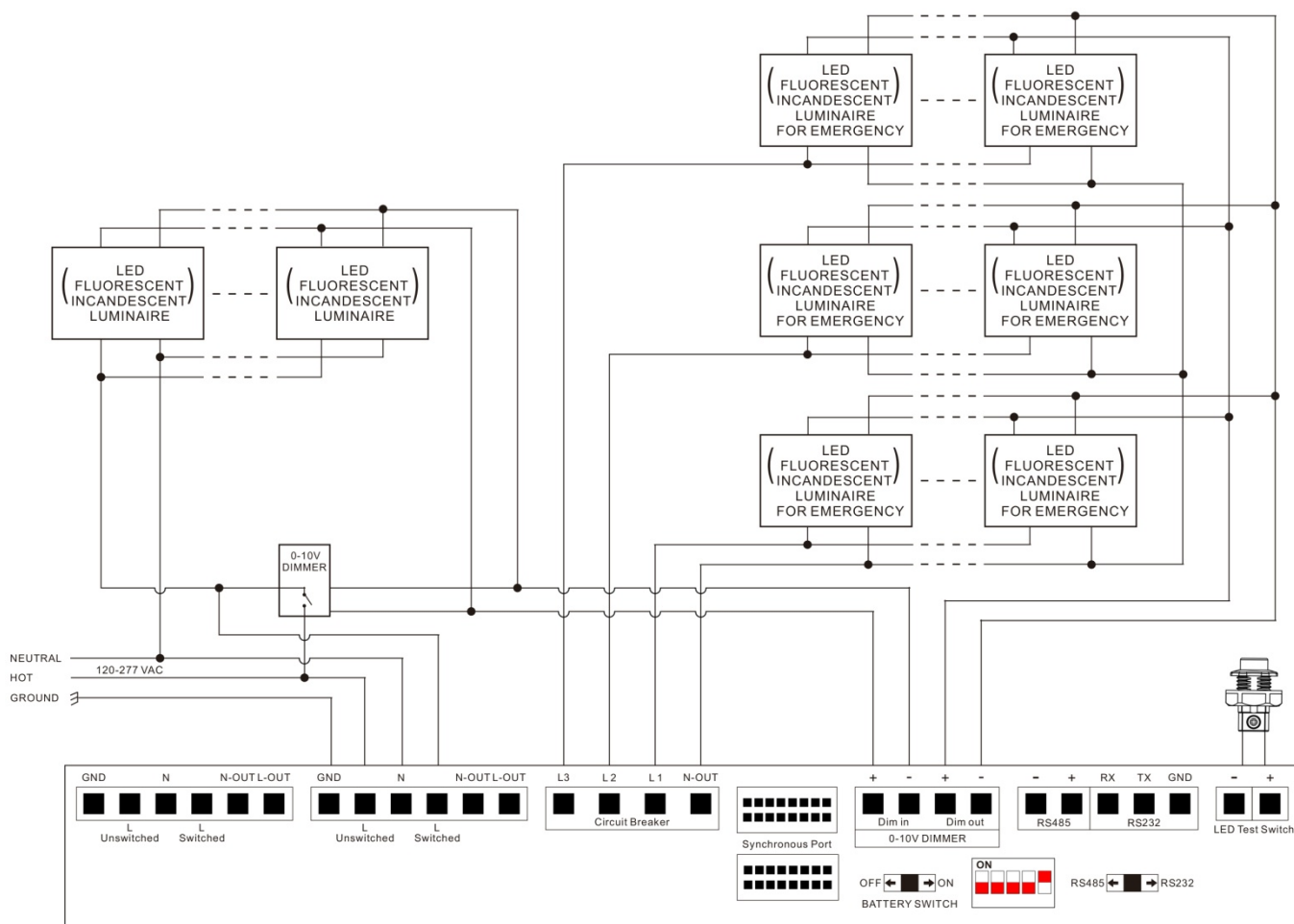
MAX. LOAD = 800W (2x184804)
 =1200W (3x184804)
 =1600W (4x184804)
 =2000W (5x184804)



WIRING DIAGRAM

**SINGLE 184804 FOR 0-10V DIMMABLE EMERGENCY LIGHTING SYSTEM
(WITH 1,2 OR 3 CIRCUIT BREAKERS)**

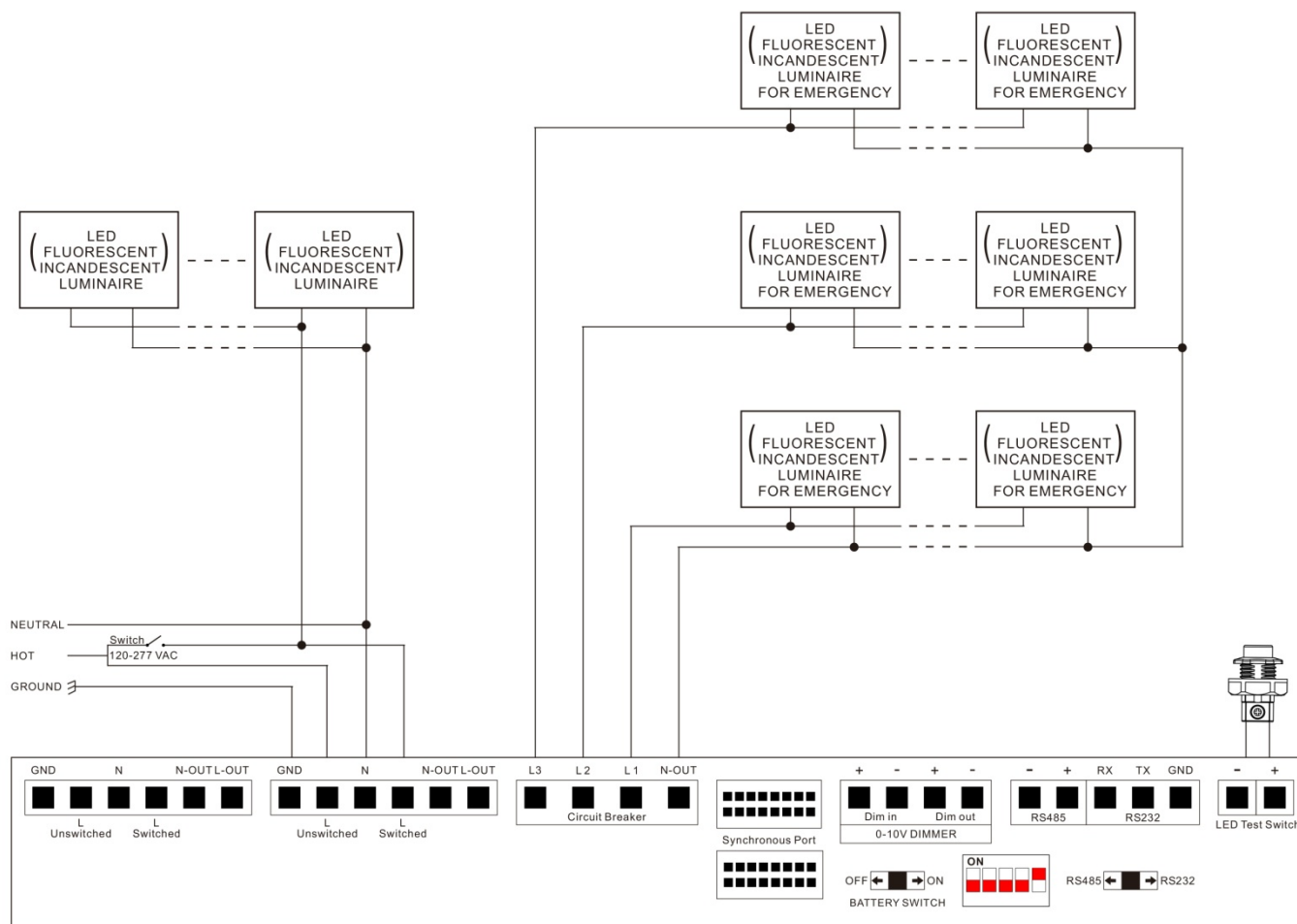
MAX. DIMMABLE LOAD = 2000W @ 120V
4000W @ 277V



WIRING DIAGRAM

SINGLE 184804 FOR NON-DIMMABLE EMERGENCY LIGHTING SYSTEM (WITH 1,2 OR 3 CIRCUIT BREAKERS)

MAX. LOAD = 400W

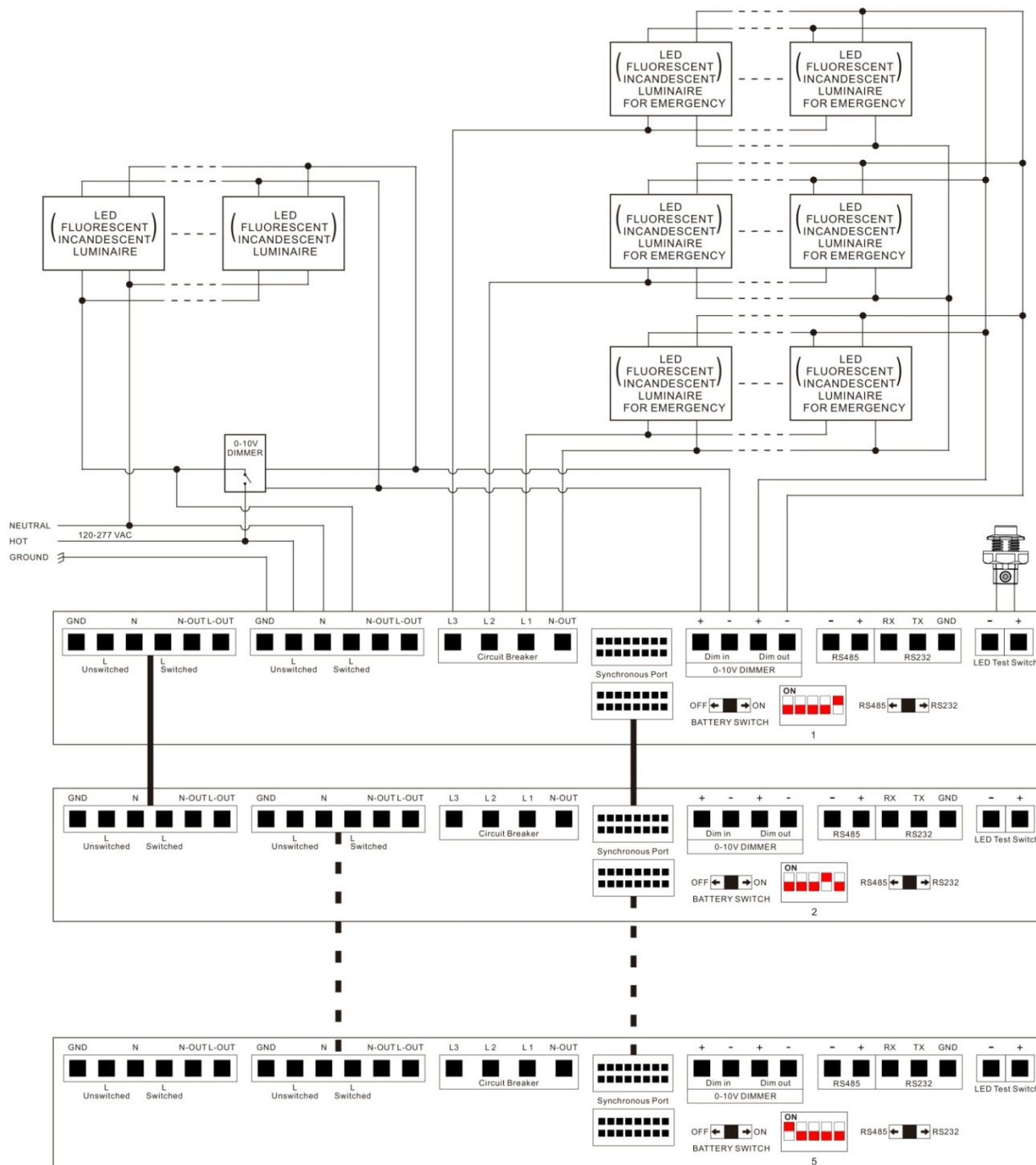


WIRING DIAGRAM

PARALLELEABLE 184804 FOR 0-10V DIMMABLE EMERGENCY LIGHTING SYSTEM (WITH 1,2 OR 3 CIRCUIT BREAKERS)

MAX. DIMMABLE LOAD = 2000W @ 120V

4000W @ 277V



WIRING DIAGRAM

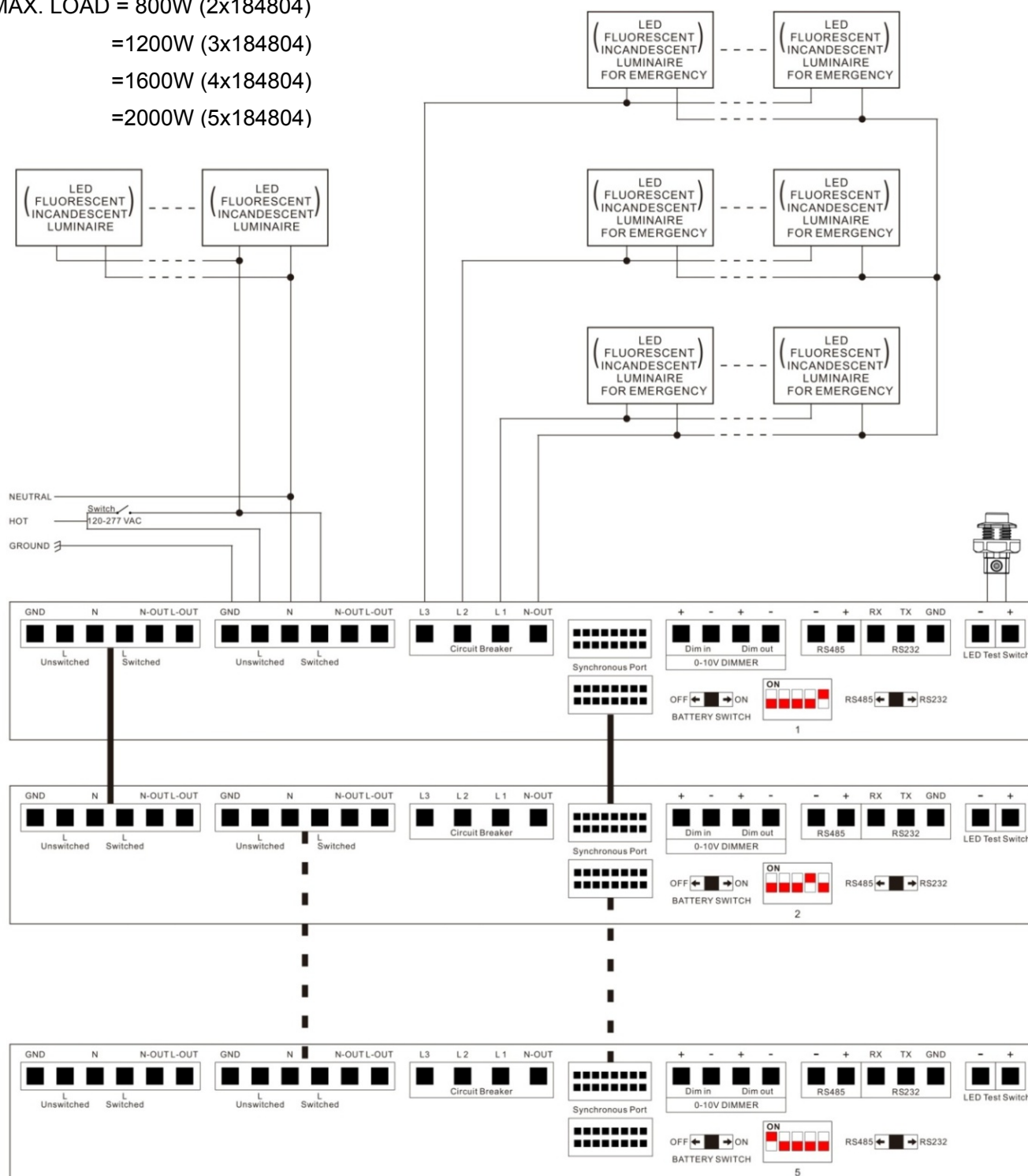
PARALLELEABLE 184804 FOR NON-DIMMABLE EMERGENCY LIGHTING SYSTEM (WITH 1,2 OR 3 CIRCUIT BREAKERS)

MAX. LOAD = 800W (2x184804)

=1200W (3x184804)

=1600W (4x184804)

=2000W (5x184804)



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 184804 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 184804 switches the system back to normal mode of operation and resumes battery charging. The minimum emergency operation time is 90 minutes. A short term discharge test may be conducted after the 184804 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. The LTS will be off.
3. Conduct a 90-minute discharge test once per year. The LTS will be off during the test.

AUTO TEST

The 184804 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 (make sure the load is switched on), the 184804 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.

The Initial Auto Test will be restarted automatically when the connected dimmable loads' maximum power increases.

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 one time to simulate emergency mode for 10 seconds.
2. Press the LTS 2 times continuously within 5 seconds to force a 60-second monthly test. After the test is completed, the next (30-day) monthly test will count from this date.
3. Press the LTS 3 times continuously within 5 seconds to force a 90-minute annual test. After the test is completed, the next (52-week) annual test will count from this date.
4. In normal mode, press and hold the LTS for greater than 3 seconds to restart Initial Auto Test.
5. 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