

MODEL:EMBXXYY-ZZZ

For wiring to the led driver's output



Features

- UL Listed for us and canada
- Listed to UL924 and tested to CSA C22.2 NO.141 Field or factory installation
- High output voltage
- Low energy consumption CEC compliance
- Constant output power
- Self-testing
- Battery:over temperature protection

Specifications

- Input Voltage:100~277Vac/347Vac, 50/60Hz
- Input Current:100mA max.
- Input Power Rating:7W max.
- Output Voltage:25V~230Vdc
- Emergency Power:30W max.
- Recharge Time:24Hrs
- Discharge Time:≥1.5H
- Warranty:5 Years
- Ambient Temp:Li-ion:32~122°F(0~50°C)
LiFePO4:32~140°F(0~60°C)
Ni-MH: 32~158°F(0~70°C)
- Weight:0.908 lbs(0.41kg)
- Surge Protection:Line-Neutral 3KV

Function

Indicator Light

- AC Operation, indicator light will keep on
- Emergency Operation, indicator light flash slowly (light on for 2 seconds, light off for 2 seconds)
- In a failure, indicator light flash quickly (light on for 0.2 seconds, light off for 0.2 seconds)

Test Switch

- In AC Operation, press test switch once, emergency for 30 seconds
- In AC Operation, press test switch twice in asuccession within two seconds, emergency until battery is full discharged
- In the emergency operation, press test switch will turn off emergency status, and led lamp & indicator light of EM driver will go out at the same time

Model NO.

| Model NO. | Output Voltage | Emergency Power | Battery Type |
|-------------|----------------|-----------------|------------------------------|
| EMB30YY-050 | 25~50Vdc | 30W | Li-ion/ LiFePO4/ Ni-MH |
| EMB20YY-050 | | 20W | |
| EMB15YY-050 | | 15W | |
| EMB08YY-050 | | 8W | |
| EMB30YY-080 | 51~80Vdc | 30W | |
| EMB20YY-080 | | 20W | |
| EMB15YY-080 | | 15W | |
| EMB08YY-080 | | 8W | |
| EMB30YY-155 | 81~155Vdc | 30W | |
| EMB20YY-155 | | 20W | |
| EMB15YY-155 | | 15W | |
| EMB08YY-155 | | 8W | |
| EMB30YY-230 | 156~230Vdc | 30W | |
| EMB20YY-230 | | 20W | |
| EMB15YY-230 | | 15W | |
| EMB08YY-230 | | 8W | |

NOTE:EMBXXYY-ZZZ

XX=Emergency Power;
ZZZ=Output Voltage;

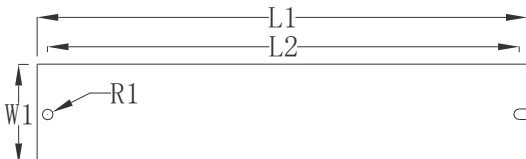
YY=Sales Code;
YY=U1:Li-ion;
U2:Ni-MH;
U3:LiFePO4;

CAUTION:

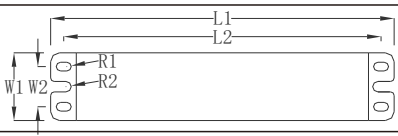
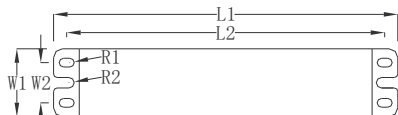
- Before doing high-voltage insulation test, must remove the battery pack first and make sure there is no any contact between the battery pack and the led drivers
- During storage, the battey pack need 24 hours charge every 6 months

The size of the control board's and the battery's housing

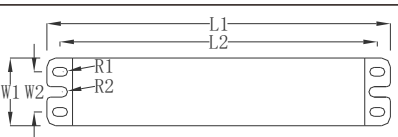
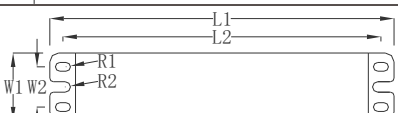
Size of the EM driver's housing

| Control Board | Size(inch) | | | | |
|--|------------|-------|-------|--------|--------|
| | Length | | Width | Height | Radius |
| Picture | L1 | L2 | W1 | / | R1 |
|  | 7.32" | 7.07" | 1.50" | 1.0" | 0.08" |

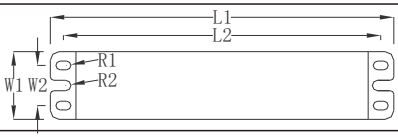
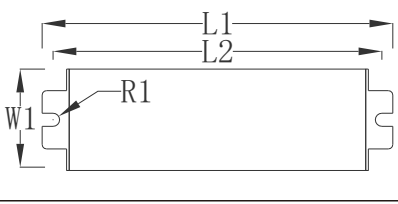
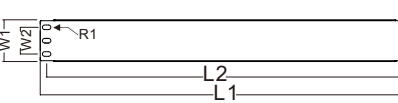
Size of Li-ion battery's housing

| Battery | | Size(inch) | | | | | | |
|--|--------|------------|-------|-------|-------|--------|--------|-------|
| Li-ion Battery | | Length | | Width | | Height | Radius | |
| Picture | Power | L1 | L2 | W1 | W2 | / | R1 | R2 |
|  | 8W-20W | 7.03" | 6.43" | 1.61" | 0.91" | 0.98" | 0.1" | 0.1" |
| | 30W | 7.03" | 6.43" | 1.61" | 0.91" | 1.73" | 0.1" | 0.1" |
|  | 4W-8W | 4.02" | 3.58" | 1.69" | 0.67" | 1.22" | 0.08" | 0.08" |

Size of LiFePO4 battery's housing

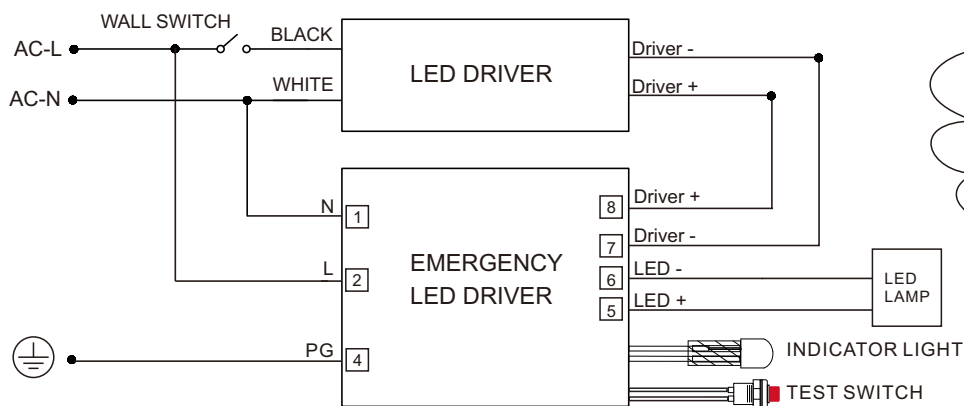
| Battery | | Size(inch) | | | | | | |
|---|-------|------------|-------|-------|-------|--------|--------|------|
| LiFePO4 Battery | | Length | | Width | | Height | Radius | |
| Picture | Power | L1 | L2 | W1 | W2 | / | R1 | R2 |
|  | 8W | 7.03" | 6.43" | 1.61" | 0.91" | 0.98" | 0.1" | 0.1" |
|  | 15W | 7.03" | 6.43" | 1.61" | 0.91" | 1.73" | 0.1" | 0.1" |

Size of Ni-MH battery's housing

| Battery | | Size(inch) | | | | | | |
|---|--------|------------|--------|-------|-------|--------|--------|-------|
| Ni-MH Battery | | Length | | Width | | Height | Radius | |
| Picture | Power | L1 | L2 | W1 | W2 | / | R1 | R2 |
|  | 8W-20W | 7.03" | 6.43" | 1.61" | 0.91" | 1.73" | 0.1" | 0.1" |
|  | 4W-8W | 8.86" | 8.41" | 1.38" | / | 0.98" | 0.09" | / |
| | | 7.32" | 7.09" | 1.69" | 0.67" | 1.22" | 0.08" | 0.08" |
| | 15W | 12.01" | 11.81" | 1.54" | / | 0.93" | 0.09" | / |
|  | 30W | 7.09" | 6.38" | 2.83" | / | 1.77" | 0.1" | / |
| | | 13.58" | 13.11" | 1.53" | 0.98" | 0.98" | 0.08" | / |

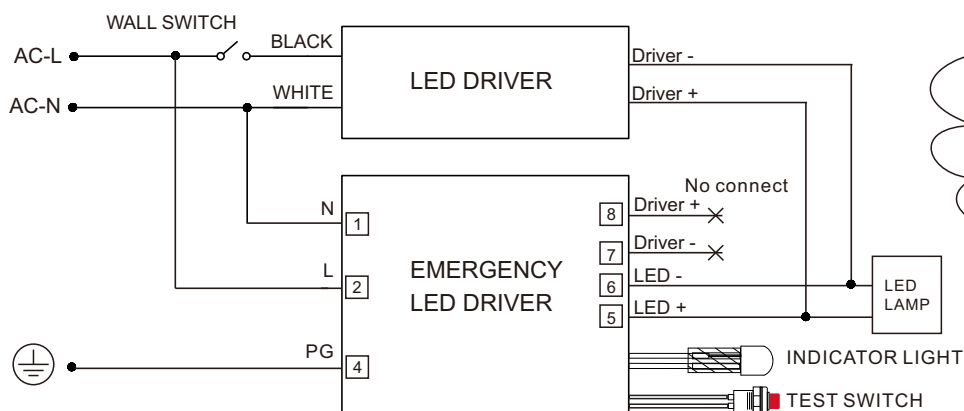
Wiring Diagram

WIRING DIAGRAM 1



(This wiring diagram is suitable for LED lamps with power less than 120W and the output current of the lamp's driver does not exceed 3A)

WIRING DIAGRAM 2

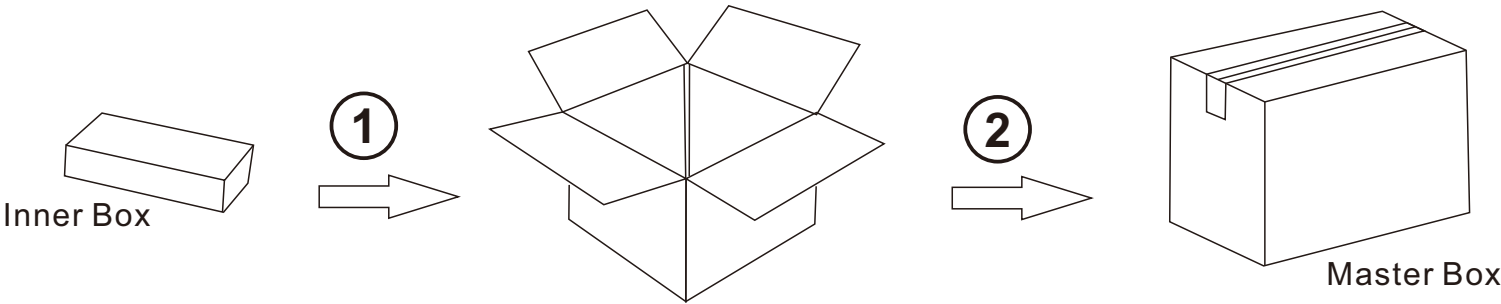


(This wiring diagram is suitable for LED lamps with power less than 300W and turn off wall switch before testing)

SELF-TEST

- The emergency LED driver contains a control/monitor circuit which will perform a 30-second discharge test once a month and a fully discharge test once a year. At this time, the unit simulate an AC power failure and automatically switch to emergency mode. During routine testing, the unit will monitor the operation of the LED load, battery voltage, and emergency duration, if the unit detect any problems, the indicator will flash quickly.

Package



Package information are as following forms

| Housing Material | Power | Length(inch) | Width(inch) | Height(inch) | G.W(kg) | N.W(kg) | QTY(pcs) |
|------------------|---------|--------------|-------------|--------------|---------|---------|----------|
| Iron | 8W | 13.19" | 8.66" | 7.87" | 8.5 | 7.3 | 20 |
| | 15W-20W | 13.19" | 8.66" | 7.87" | 10.4 | 9.4 | 20 |
| | 30W | 12.3" | 8.6" | 10.85" | 15.44 | 13.84 | 20 |
| Aluminum | 4W-8W | 12.28" | 8.54" | 10.83" | 7.83 | 6.4 | 30 |