Emergency LED Driver

EMB Series

MODEL:EMBXXYY-ZZZFor lamp with internal driver















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)
 Ni-MH: 41~149°F(5~65°C)
- Weight: 0.908 lbs(0.41kg)
- Surge Protection:Line-Neutral 3KV

Function

- 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)

Model NO.

| | T | 1 | |
|----------------------------|--|--------------------|------------------|
| Model NO. | Output Voltage | Emergency Power | Battery Type |
| EMB30YY-050 | | 30W | |
| EMB20YY-050 | 25~50Vdc | 20W | |
| EMB15YY-050 | Y-050 Y-050 Y-050 Y-050 Y-080 Y-080 Y-080 Y-155 Y-155 Y-155 Y-155 Y-230 Y-230 Y-230 | 15W | |
| EMB08YY-050 | | W8 | |
| EMB30YY-080 | 0 0 51~80Vdc | 30W | |
| EMB20YY-080 | 51~80Vdc | 20W | |
| EMB15YY-080 | 0. 00140 | 15W | |
| EMB08YY-080 | | W8 | Li-ion/ Ni-MH |
| EMB30YY-155 | 330YY-155 | | INI-IVITI |
| EMB20YY-155 | 81~155Vdc | 20W | |
| EMB15YY-155 | | 15W | |
| EMB08YY-155 | | W8 | |
| EMB30YY-230 | | 30W | |
| EMB20YY-230 EMB15YY-230 | 156~230Vdc | 20W | |
| | | 15W | |
| EMB08YY-230 | | W8 | |

NOTE: EMBXXYY-ZZZ

XX=Emergency Power; YY=Sales Code;

ZZZ=Output Voltage;

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
- After test, disconnect the unit connector of the battery pack first before shipping and storing
- During storage, the battey pack need 24 hours charge every 3 months

Pg1 Rev:V03

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

Size of the EM driver's housing

| Control Board | Size(inch) | | | | | | |
|---|------------|-------|-------|--------|--------|--|--|
| Control Board | Lei | ngth | Width | Height | Radius | | |
| Picture | L1 | L2 | W1 | / | R1 | | |
| $\begin{array}{c c} L1 \\ L2 \\ \hline \end{array}$ | 1.32" | 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 | | |
| Housing Material | Picture | Power | L1 | L2 | W1 | W2 | / | R1 | R2 |
| Iron L1 L2 L2 L2 L2 L2 L2 L2 | 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" | |
| Aluminum | L1 L2 W1 W2 R2 | 4W-8W | 4.02" | 3.58" | 1.69" | 0.67" | 1.22" | 0.08" | 0.08" |

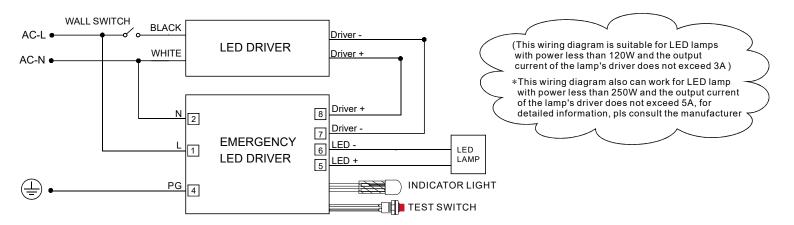
Size of Ni-MH battery's housing

| Battery | | | Size(inch) | | | | | | |
|---------------------|----------------------|-------------|------------|-------|-------|-------|--------|--------|-------|
| Ni-MH Battery | | | Length | | Width | | Height | Radius | |
| Housing Material | Picture | Power | L1 | L2 | W1 | W2 | 1 | R1 | R2 |
| Iron | L1 L2 W1 W2 R2 | 8W-20W | 7.03" | 6.43" | 1.61" | 0.91" | 1.73" | 0.1" | 0.1" |
| Aluminum W1 R1 | 4W-8W | 8.86" | 8.41" | 1.38" | 1 | 0.98" | 0.09" | / | |
| | | 4 00 - 0 00 | 7.32" | 7.09" | 1.69" | 0.67" | 1.22" | 0.08" | 0.08" |
| | 15W | 12.01" | 11.81" | 1.54" | 1 | 0.93" | 0.09" | / | |
| | 30W | 7.09" | 6.38" | 2.83" | 1 | 1.77" | 0.1" | 1 | |

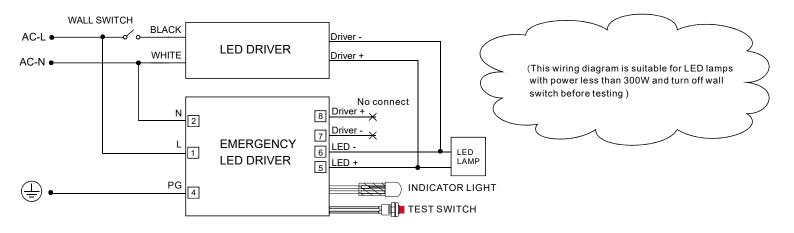
Pg2 Rev:V03

Wiring Diagram

WIRING DIAGRAM 1



WIRING DIAGRAM 2



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.

Pg3 Rev:V03