

# Emergency LED Driver

# EMB Series

## MODEL: EMBXXYY-ZZZ

### For 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:  $\geq 1.5H$  (90 min.)
- 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.

Model NO.	Output Voltage	Emergency Power	Battery Type
EMB30YY-050	25~50Vdc	30W	Li-ion/ 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; YY=Sales Code;

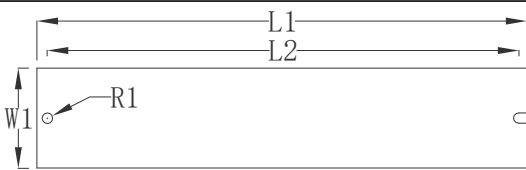
ZZZ=Output Voltage;

### CAUTION:

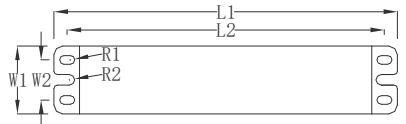
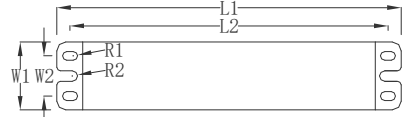
- Before doing high-voltage insulation test, must remove the battery pack first and make sure there is no any contact between the battery pack and the led drivers
- After test, disconnect the unit connector of the battery pack first before shipping and storing
- During storage, the battery pack need 24 hours charge every 3 months

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

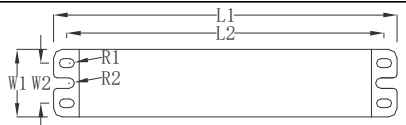
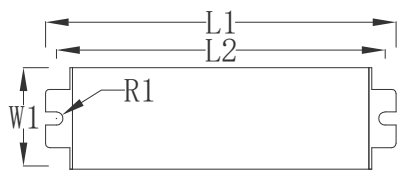
### Size of the EM driver's housing

Control Board		Size(inch)				
		Length		Width	Height	Radius
Picture		L1	L2	W1	/	R1
		1.32"	7.07"	1.50"	1.0"	0.08"

### Size of Li-ion battery's housing

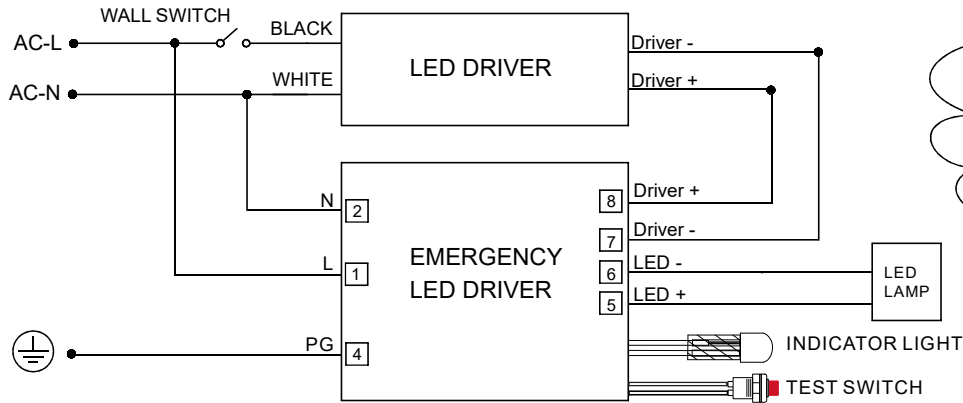
Battery			Size(inch)						
Li-ion Battery			Length		Width		Height	Radius	
Housing Material	Picture	Power	L1	L2	W1	W2	/	R1	R2
Iron		8W-20W	7.03"	6.43"	1.61"	0.91"	0.98"	0.1"	0.1"
		30W	7.03"	6.43"	1.61"	0.91"	1.73"	0.1"	0.1"
Aluminum		4W-8W	4.02"	3.58"	1.69"	0.67"	1.22"	0.08"	0.08"

### 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	/	R1	R2
Iron		8W-20W	7.03"	6.43"	1.61"	0.91"	1.73"	0.1"	0.1"
Aluminum		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"	/

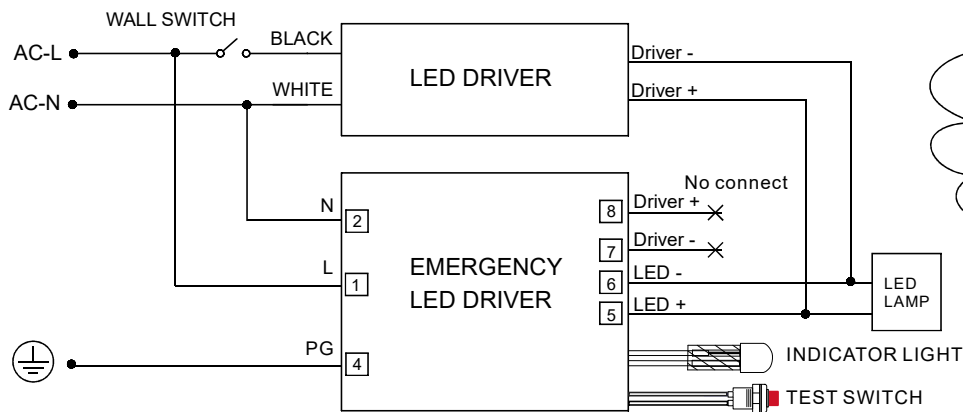
## Wiring Diagram

### 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)  
 \*This wiring diagram also can work for LED lamp with power less than 250W and the output current of the lamp's driver does not exceed 5A, for detailed information, pls consult the manufacturer

### WIRING DIAGRAM 2

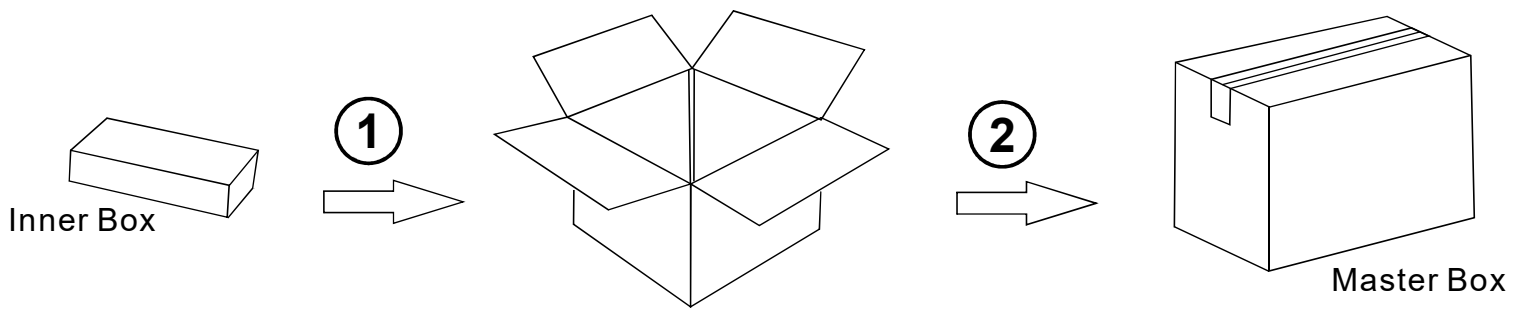


(This wiring diagram is suitable for LED lamps with power less than 300W and turn off wall switch before testing)

## SELF-TEST

- In AC operation, press test switch once, emergency for 30 second test. Green indicator light will flash.
- **How to discharge BBU:** In AC operation, press test switch twice within two seconds. Green indicator light will flash and fully discharge the battery. Once fully discharged, green indicator light will become solid.
- In emergency operation, press test switch to turn off emergency status. LED lamp and indicator light of EM driver will go out at the same time.
- Perform a 30-second discharge test once a month and a full discharge test once a year. At this time, the unit simulates an AC power failure and will 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 detects any problems, the indicator will flash quickly.

## Package



## Package information are as following forms

### Package for EM driver with Li-ion battery

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"	/	/	20
	15W-20W	13.19"	8.66"	7.87"	10.4	9.4	20
	30W	/	/	/	/	/	/
Aluminum	4W-8W	12.28"	8.54"	10.83"	7.83	6.4	20

### Package for EM driver with Ni-MH battery

Housing Material	Power	Length(inch)	Width(inch)	Height(inch)	G.W(kg)	N.W(kg)	QTY(pcs)
Iron	8W						
	15W-20W	/	/	/	/	/	/
Aluminum	4W-8W	/	/	/	/	/	/
	15W	/	/	/	/	/	/
	30W	/	/	/	/	/	/