

US Patent #10,333,344



Product features

- Constant power control
- Open Circuit Protection
- Short Circuit Protection
- Sound Rated A
- UL / cUL Listed
- FCC Part 15 Class A
- 5 Years Limited Warranty

System application: LED Emergency controller for backup lighting

Electrical data

Input	
Input voltage	120~277VAC
Frequency	50/60Hz
Power factor	> 0.6@Full load
Input current.max	100mA
Standby power	< 1w
White/Black lead	Control wire < 5mA

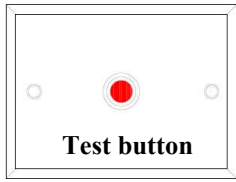
Output	
Output voltage	120VAVC
Output frequency	60Hz
Output power	10W max
Output short protection	Yes
Output open protection	Yes
Output power setting	Fixed

Environmental	
Operating temperature	0C – 50C
Storage temperature	-40C – 80C
Operating humidity	20 – 85RH
Storage humidity	10 – 85RH

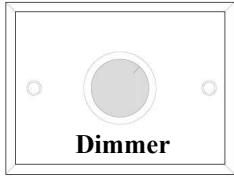
Protection&Safety&EMC	
Over current protection	Replaceable Fuse
Application	For dry and damp location
Safety standards	UL924
EMI/EMC standards	FCC PART15 Class A

Specification data is based on tests performed in a controlled environment and represents relative performance. Actual performance can vary depending on operating conditions. Application and performance data subject to change without notice. All specifications are nominal unless noted otherwise.

Wiring diagram for 0-10V Dimming Fixture



Test button



Dimmer

Full AC mode	
0-10V Mode	

Test button

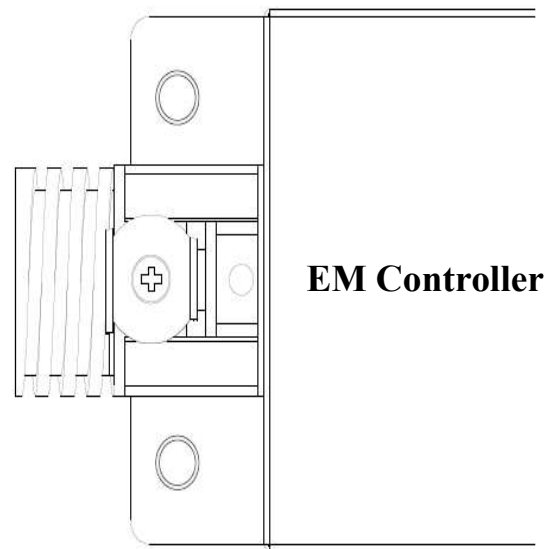
Test button +	Violet 18#
Test button -	Brown 18#

Dimmer

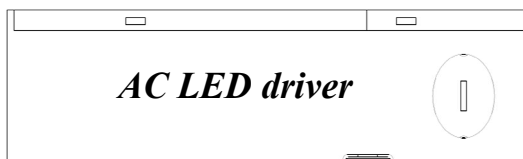
Dimmer +	Violet 20#
Dimmer -	Pink 20#

AC input wires

Switched line	Black/white 18#
Unswitched line	Black 18#
Netural	White 18#
Ground	Green 18#



EM Controller

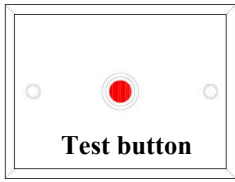
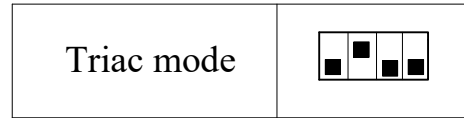


AC LED driver

Output to Driver

AC Line	Red 18#
AC neutral	Blue 18#
Dim +	Yellow 20#
Dim -	Pink 20#

Wiring diagram Triac Dimming Fixture



Test button

Test button +	Violet 18#
Test button -	Brown 18#

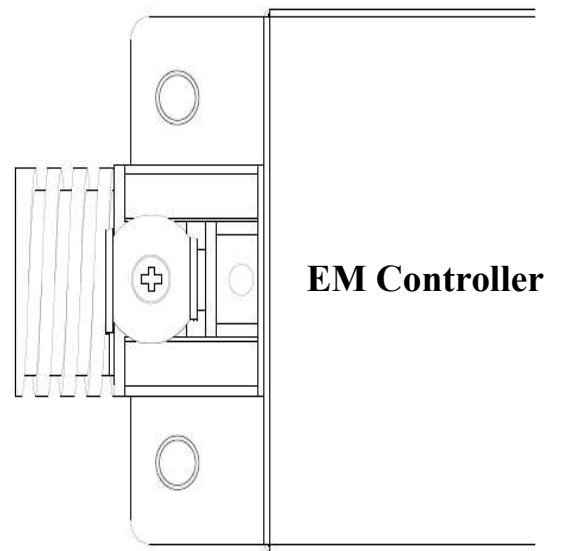
N.C & Coated
N.C & Coated

Dimmer

Dimmer +	Violet 20#
Dimmer -	Pink 20#

AC input wires

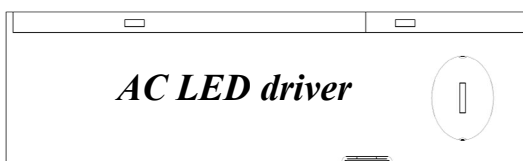
Switched line	Black/white 18#
Unswitched line	Black 18#
Netural	White 18#
Ground	Green 18#



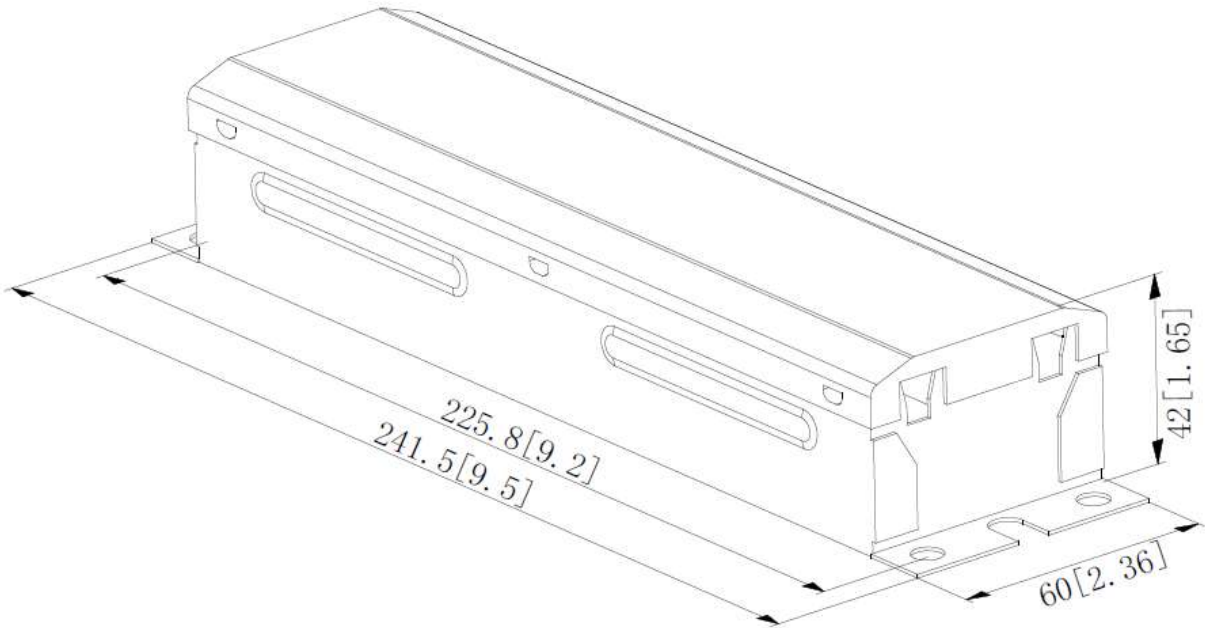
N.C & Coated

Output to Driver

AC Line	Red 18#
AC neutral	Blue 18#
Dim +	Yellow 20#
Dim -	Violet 20#



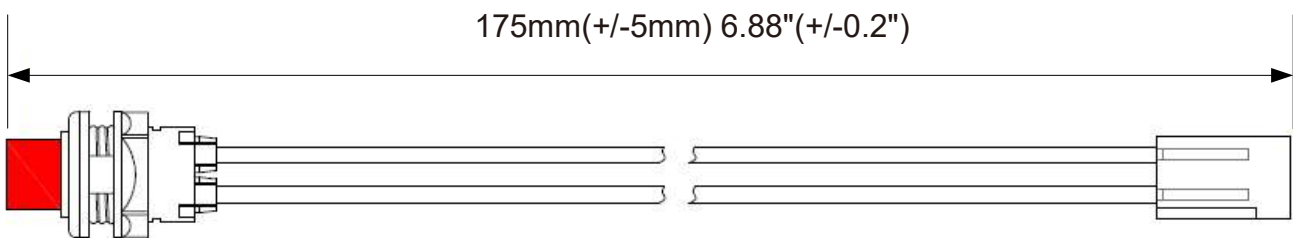
Controller Mechanical data



WHITE	Solid 1015 18AWG 105°C 600V line length 380mm(15") stripping10mm(0.39")
BLACK	Solid 1015 18AWG 105°C 600V line length 380mm(15") stripping10mm(0.39")
WHT/BLK	Solid 1015 18AWG 105°C 600V line length 380mm(15") stripping10mm(0.39")
Red	Solid 1015 18AWG 105°C 600V line length 500mm(19.7") stripping10mm(0.39")
Black	Solid 1015 18AWG 105°C 600V line length 500mm(19.7") stripping10mm(0.39")
Yellow	Solid 1015 18AWG 105°C 600V line length 500mm(19.7") stripping10mm(0.39")

Battery connector(Part A)	Stranded 1015 18AWG 105°C 600V line length 50mm(1.97")
Battery connector(Part B)	Stranded 1015 18AWG 105°C 600V line length 500mm(19.7")
Test button(Part A)	Stranded 1015 18AWG 105°C 600V line length 480mm(18.89")
Test button(Part B)	Stranded 1007 24AWG 80°C 300V line length 175mm(6.88")

Test Button



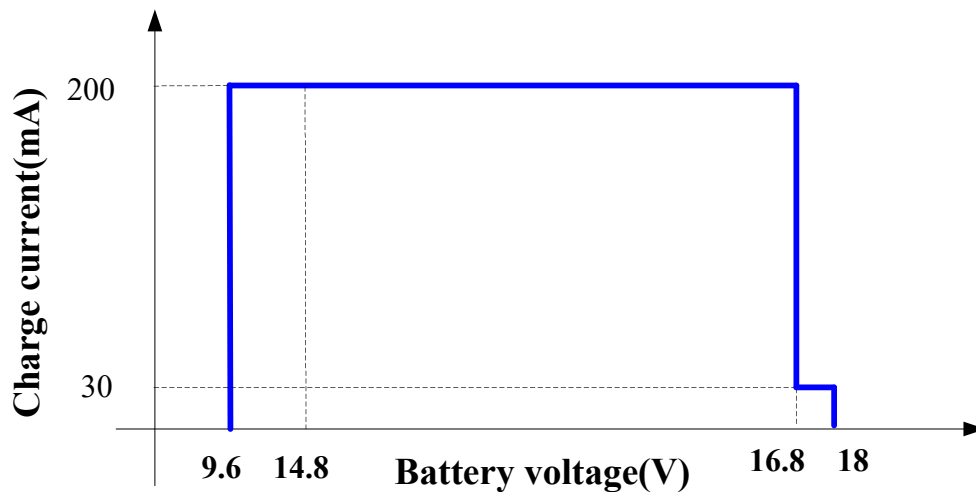
Battery Chart

Chemistry	Compliant	Pack Capacity	Max Load for 90 min	Battery voltage	Recharge time
Lithium	cULus	2200mA	10W	14.8V	24Hrs

Power output setting

Dip swtich setting	Battery charing current (mA)	Power output (W)	Emergency time (mins)
0-10V or Triac	200-250	10	> 90

Appendix: Battery charging VI curve



IMPORTANT SAFETY PRACTICES

PLEASE READ CAREFULLY AND FOLLOW ALL INSTRUCTIONS FOR YOUR OWN SAFETY

Important : An un-switched AC power source of 100V AC to 277V AC is required and Max.load 60W. This device is designed for use in fixtures listed for dry and damp locations with dimmable drivers only.

CAUTION: Make sure all electrical connections conform to the National Electrical Code and all applicable local regulations s and jurisdictions.

CAUTION: Do not let power supply cords touch hot surfaces.

CAUTION: Do not mount near gas or electric heaters.

CAUTION:Battery is rechargeable NiCd or Lithium type and must be recycled or disposed of properly .

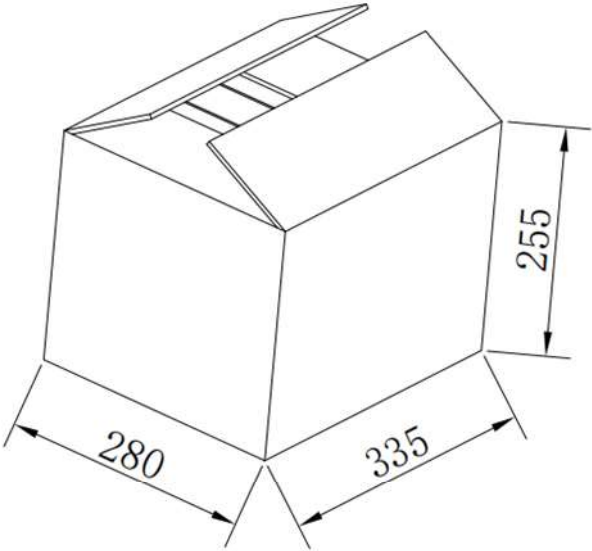
CAUTION: Charge battery for 24 Hours before use. Test system regularly.

Do not use this emergency driver with accessory equipment other than recommended by manufacturer. Do not use this emergency driver for other than intended use.

Failure to follow this may cause an unsafe condition. Servicing should only be performed by qualified service personnel.

Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

Package information



Size	11.0" x 13.2" x 10.0"
Number	
Net Weight	
Gross Weight	

Files revision history

Revision Date	Version No	Content	Make	Check	Approval
20201231	V01				
20231115	V02	Update to AC sinewave output			