





# The Power to Create Better Light when you need it the most...

#### **Sentinel Emergency Solutions**

- The Espen Sentinel family of emergency Ballast, Inverters and Driver kits, provide a comprehensive set of back-up solutions for Types A, B, and C LED products to function should the AC power fail.
- Espen Sentinel LED battery backup products switch to emergency mode in case of power failure and keep LED retrofit products Illuminated at a reduced lumen output for a minimum of 90 minutes.
- The Sentinel emergency ballasts are for Type A lamps.
- The Sentinel emergency inverters are for Type B lamps.
- The Sentinel emergency driver kit is for Type C lamps, retrofit kits, and fixtures.
- The Sentinel Emergency standalone back up kits can be used if you do not want to change/modify wiring of your lamp and ballast/driver setup, or if you do not want to use your regular lighting as emergency lighting. The Sentinel standalone kits include the Sentinel Type C emergency driver with battery, and the LED module that would light up during power interruption.
- Sentinel LED emergency backup solutions are suitable for use in new fixtures as well as retrofit applications.
- All models include LED charging indicator light, single pole test switch, and installation hardware.

## Sentinel®



Emergency Solutions for Type A, B, C lamps, Retrofit Kits and Fixtures



## Standalone Emergency Backup Kits



## Constant Wattage LED

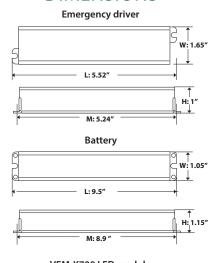
#### FEATURES AND BENEFITS

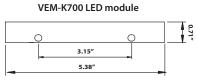
- Constant Wattage & Light Output
- LED emergency back up kit includes constant wattage emergency driver, battery, high efficacy LED module & LED charging indicator light
- VEM K1500 provides 1500lm while the VEM K700 provides 700lm when power fails
- Does not affect Existing Lighting Fixture / Luminaire
- UL Listed
- Standalone Works independently from the regular light fixture

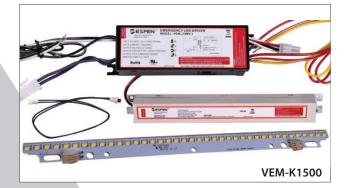
Model No.	Lumens (90min)	Wattage	Module Information
VEM-K700	700lm	5W	VLM0605L/850 5W, 5000K, CRI80
VEM-K1500	1500lm	10W	VLM1207L/850 10W, 5000K, CRI80

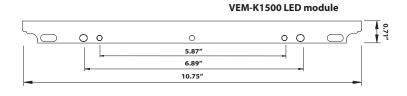
Model #	Dip Switch Setting	Emergency Mode Output Power	Emergency Mode Output Voltage	Emergency Mode Output Current	Battery Charging Current
VEM-K700	<u> </u>	5W	12-50V	416-100mA	60mA
VEM-K1500	1 2 3	10W	12-50V	830-200mA	100mA

#### **DIMENSIONS**



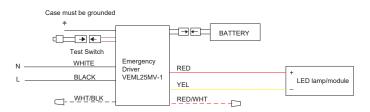






# SESPEN SOUTH FOR THE PROPERTY LED DRIVER SOUTH FOR THE PROPERTY LED DRIVER

#### WIRING DIAGRAM





## **Emergency Ballasts**



## For T5 and T8 Lamps

#### **FEATURES AND BENEFITS**

- Emergency ballasts for Type A Emergency Applications
- Dual Input Voltage (120/277V)
- May work with Fluorescents and Type A T5 or T8 LED lamps using ballasts\*
- Compatible with Espen Retroflex Lamps, Ballasts, and Type A drivers
- May work with Uniflex lamps if wired & used as Type A

#### **Compatible With:**



• High Temperature Ni Cad Battery



- Durable, Heavy Duty Steel Housing
- 4 options with different sizes and lumen output
- Maintenance Free, Long Life
- 5 Year Warranty

Model No	Total Lumens (maximum) Emergency Mode	Input Voltage (V)	Operating Time in Emergency Mode	Case
VEM500DV-L	500	120-277V	> 90 minutes	Regular
VEM700DV-L	700	120-277V	> 90 minutes	Regular
VEM800DV-L	800	120-277V	> 90 minutes	Slim
VEM1300DV-L	1300	120-277V	> 90 minutes	Slim

### 1 Lamp **Emergency**





1 to 2 Lamp **Emergency** 





Lumen output is the total combination for all lamps wired as emergency lamp/s.

<sup>\*</sup>Note: Espen recommends testing compatibility and performance in the actual jobsite prior to purchasing and before the actual installation lamp, ballasts/drivers, and emergency ballasts combinations performs differently depending on the circuit designs, components used, and other factors that can affect compatibility and performance.

## **Emergency Inverters**



## For Type B Lamps

#### FEATURES AND BENEFITS

- Emergency Inverter for most Espen Type B lamps
- Dual Input Voltage (120/277V)
- 90 Minute Illumination Time
- 32 °F to 122 °F Ambient Operating Temperature
- 3 options with different sizes and wattage output
- Durable Steel Housing Contains LED Driver & Battery
- Suitable for Damp Locations
- LED Test Switch Included
- Does Not Affect Normal Operation
- 5 Year Warranty



- Espen Flex Type B T5 and T8 for 2ft, 3ft, 4ft. Also operated PL and PLL
- Provides 5 W of power for a minimum of 90 minutes
- Lithium Ion Rechargeable Battery
- UL 924 & FCC Compliant
- Output OCV 200 VDC



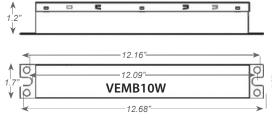
- Espen Flex Type B T 5 T 8 2 ft 3 ft, and 4 ft and Uniflex (when used as Type B) lamps.
- Provides 10 W of power for a minimum of 90 minutes
- Lithium Ion Rechargeable Battery
- UL 924 & FCC Compliant
- Output OCV 200 VDC

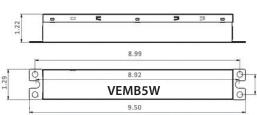


- Espen Type B PL, PLL, Uniflex (when used as Type B), and T 8 and T 5 HE lamps not exceeding 20W
- Illuminates Most LEDs at Full Brightness, up to 20W for a minimum of 90 minutes
- Nickel Cadmium Rechargeable Battery
- UL 924 NFPA 101 Life Safety Code, NEC OSHA Compliant
- Output OCV 320 VDC

#### **DIMENSIONS**







## **Emergency Inverter**

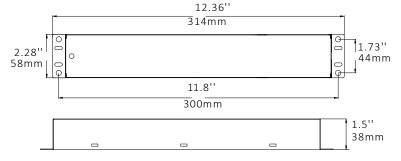
#### FEATURES AND BENEFITS

- Universal 120-347V AC, 50/60Hz Input
- Open Circuit Voltage 170VDC
- Charge/Power "ON" LED Indicator Light and Push-to-Test Switch for Code Compliance Testing
- Long Life, Maintenance Free, Lithium-Ion Battery
- Output Short and Overcurrent Protection: Electronic Limiting, with Normal Operation Resuming
- 90 Minute Minimum Emergency Operating Time Over Full Temperature Range
- Durable Steel Housing contains LED Driver and Battery
- 24 Hour Maximum Battery Recharge Time
- Major application includes commercial downlight and 0-10V fixtures
- 5 Year Warranty
- Meets UL924



Model No.	Description
MB15W-10V (C)	Operates Espen Commercial Downlight or 0-10V Dimming Fixture

#### **DIMENSIONS**

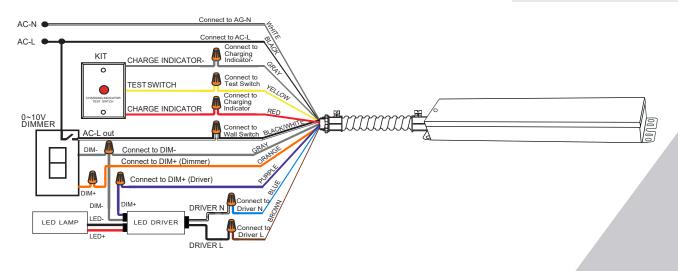


#### WIRING DIAGRAM

#### Compatible With:

VE





## **Emergency LED Driver**



## Type C LED Lamps, LED Modules and Fixtures

#### **FEATURES AND BENEFITS**

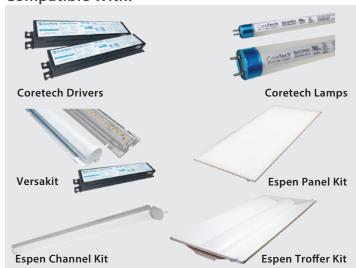
- Constant Light Output
- Auto LED load sensing
- Universal Input (120-277V)
- Complete Thermal Solution
- Heavy duty battery
- Programmable for Lumen Output
- UL Recognized
- 5 Year Warranty



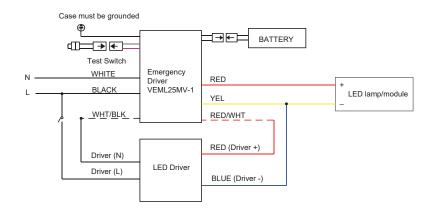
Dip Switch Setting	Emergency Mode Output Power	Emergency Mode Output Voltage	Emergency Mode Output Current	Battery Charging Current
1 2 3	5W	12-50V	416-100mA	60mA
1 2 3	10W	12-50V	830-200mA	100mA
1 2 3	15W	12-50V	1250-300mA	160mA
1 2 3	20W (VEML20MV-1) 25W (VEML25MV-1)	12-50V 12-50V	1400-400mA 2084-500mA	210mA 210mA

Wattage Adjustment (dip switch):

#### **Compatible With:**



#### WIRING DIAGRAM



Model No.	Description
EML25-PLATE	Emergency driver back plate Pre-wired and mounted emergency driver and battery unit in one plate
*Sold Separately	N. C.
-3	



#### **HEADQUARTERS**

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