



Emergency LED Driver, 20 W Constant Output, 100-277 VAC Universal Input, 90-Minute Runtime

- UL Listed under file E493915 for field or factory installation
- Selectable emergency output power of 10 W, 15 W, or 20 W by dial switch
- Universal 100-277 VAC, 50/60 Hz input drawing 100 mA maximum
- Minimum 90 minutes of emergency illumination on loss of AC power
- Over-voltage, low-voltage, over-temperature and short-circuit battery protection
- RoHS compliant, rated for 0 C to 50 C ambient operation

OVERVIEW

The D-EMS-20W is an emergency LED backup driver that maintains illumination from a luminaire's LED load when normal AC power is lost. It is intended for indoor commercial and institutional fixtures used with dry or damp location rated, grounded housings, where code-required egress illumination must be provided.

The driver accepts universal 100-277 VAC, 50/60 Hz input at 100 mA maximum and delivers constant emergency output power, selectable at 10 W, 15 W, or 20 W by dial switch, for LED loads rated 25-48 V DC. Illumination time is a minimum of 90 minutes. Battery protection covers over-voltage, low-voltage, over-temperature and short-circuit conditions, and an illuminated low-voltage test switch with charging indicator is provided. The unit measures 382 mm x 55 mm x 32 mm and operates from 0 C to 50 C ambient.

UL Listed under file E493915 for field or factory installation and RoHS compliant. Warranty is one year.

SPECIFICATIONS

OPTICAL

LED Lifetime	50,000 h
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ELECTRICAL

Operating Voltage	100-277 V
Wattage	10 W
Current Draw	0.1 A

MECHANICAL

Product Dimensions	382mmx55mmx32mm
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ENVIRONMENTAL

Environmental Rating	Indoor use only; for dry or damp location rated fixtures
Ambient Operating Temperature	0-50 °C 32-122 °F

DIMENSIONS & DIAGRAMS

AC Input Current
100mA max.

AC Input Power Rating
5.5W max.

Output Current and Voltage
416-800mA ,25V-48V

Output Power
20W max.

Illumination Time
≥90 Minutes

Full Warranty
5 Years

Test Switch/Charging Indicator Light
Low Voltage,illuminated Test Switch

Battery
High-Temperature,Maintenance-Free
Ni-MH battery

1.DO NOT MATE CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED.
2.TEST ACCESSORY LEADS-OBSERVE PROPER POLARITY WIRING.

WIRING DIAGRAM

CERTIFICATIONS & COMPLIANCE

UL Listed
E493915

RoHS Compliant

APPLICATIONS

Emergency egress lighting in office troffers

Retail and showroom downlight backup

School and healthcare corridor fixtures

Indoor warehouse and stairwell luminaires

Municipal building code-required egress lighting

PROVENANCE — REVIEW COPY ONLY

slug	value	source	confidence
led_lifetime_h	50,000 h	db	high
operating_voltage	100-277 V	pdf	high
wattage	10 W	pdf	high
current_draw	0.1 A	pdf	high
product_dimensions	382mmx55mmx32mm	pdf	high
environmental_rating	Indoor use only; for dry or damp location rated fixtures	pdf	high
ambient_temp_c	0-50 °C	pdf	high
warranty_years	1 y	db	high

Specifications subject to change without notice.