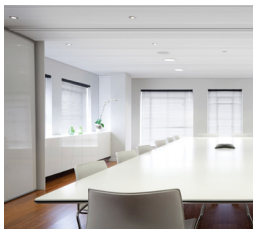
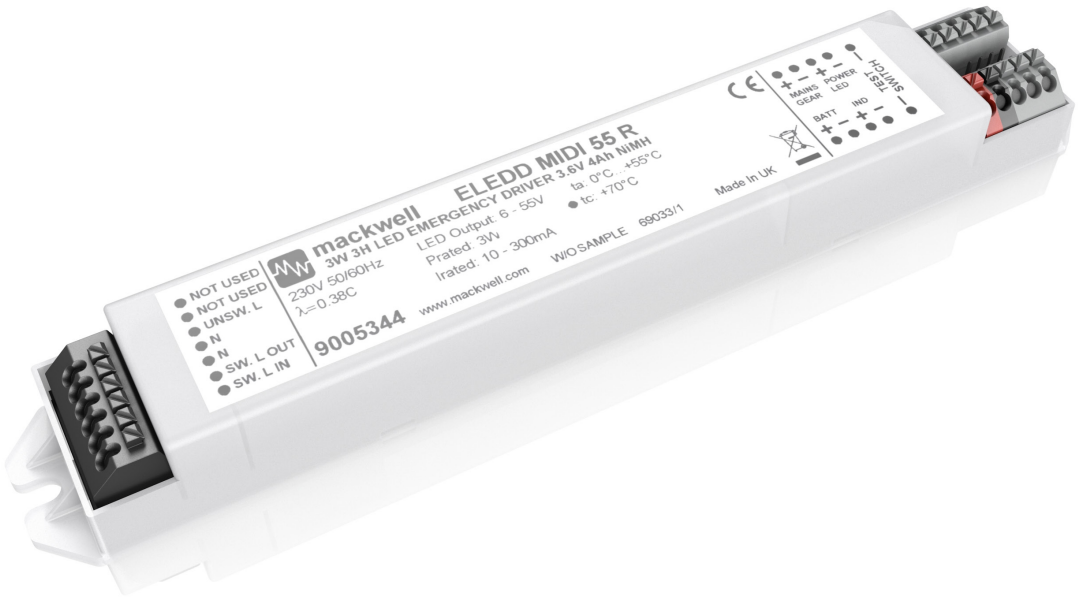


ELEDD MIDI 55

Compact Emergency LED Driver



ELEDD MIDI 55

3 Hours

SELV

Emergency LED Driver With 3 Hour Emergency Duration

Compact Emergency LED Driver

The ELEDD MIDI 55 range of LED emergency modules has been designed to enable conversion of general lighting for emergency operation.

Each variant has controlled current SELV compliant outputs, suitable for driving multiple power LEDs or multi-chip LED arrays with forward voltages (Vf) of 6V to 55V, and built-in adaptability that allows for optimum output current based on the forward voltage of the specific light engine for a more precise match to the controlled LED scheme. The range includes options for DALI AutoTest with a choice of NiCd or NiMH batteries to drive 3-hour rated emergency duration.

Key features:

- Auto load detecting
- DALI functionality option
- Compatible with leading brands of mains drivers
- SmartCharge™ technology for NiMH batteries
- Test-switch function
- Battery deep-discharge protection
- Compatible with NiMH or NiCd batteries
- 3-hour rated emergency duration
- SELV output

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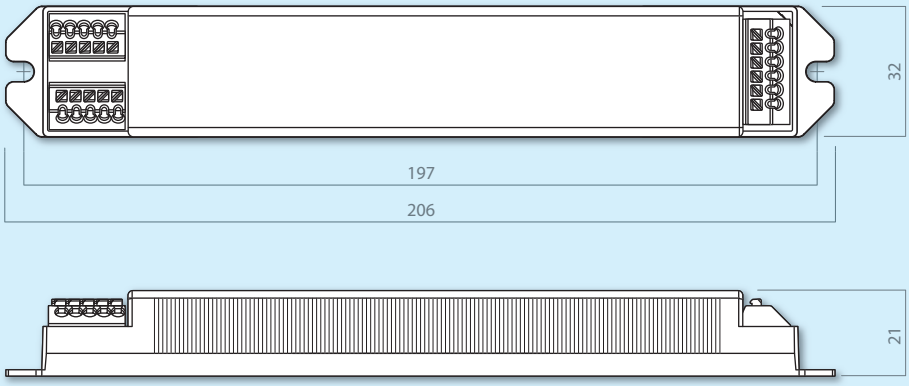
ELEDD MIDI 55

Compact Emergency LED Driver

Dimensions



Driver Specification

Rated supply voltage	:	230V
Supply frequency	:	50/60Hz
Supply current (Max)	:	25mA
Power factor	:	0.5 - 0.7
LED voltage (Vf)	:	6 to 55V
Ambient temperature (ta)	:	0°C to +55°C
Maximum case temperature (tc)	:	+70°C
Rated emergency duration	:	3 hours
Battery charge current		
NiCd (4.5Ah)	:	200mA
NiCd (2Ah)	:	95mA
NiMH (4Ah)	:	200mA*
NiMH (2.2Ah)	:	95mA*
Initial charge period	:	24 hours
Conductor size	:	0.2 to 1.5mm^2
Weight	:	83g

Relevant Standards

EN 61347-2-7
EN 61347-2-13
EN 60598-2-22
BS 5266-1
EN 62034
EN 62386
EN 62384
ICEL 1004

*Technology Features

SmartCharge™ applies an intermittent charging duty cycle designed for use with NiMH batteries. This provides energy efficient charging maintenance, reduced operating temperatures and optimum service life of NiMH batteries.

Batteries

ELEDD MIDI 55 is available with a range of rechargeable battery options. For details on compatible batteries, see the compatibility chart on the final page of this datasheet. For 1 hour emergency operation, please contact Mackwell for further details.

Mackwell offers end caps with all battery sticks and these should be securely fastened to the gear tray or luminaire body with screws. Failure to use appropriate end caps may result in damage to the luminaire or wiring during transport, installation and operation.

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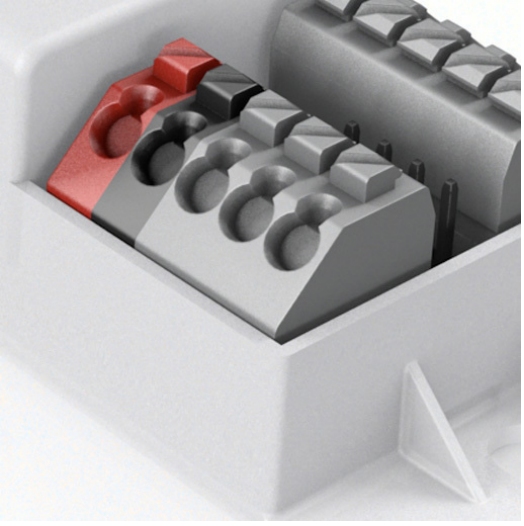
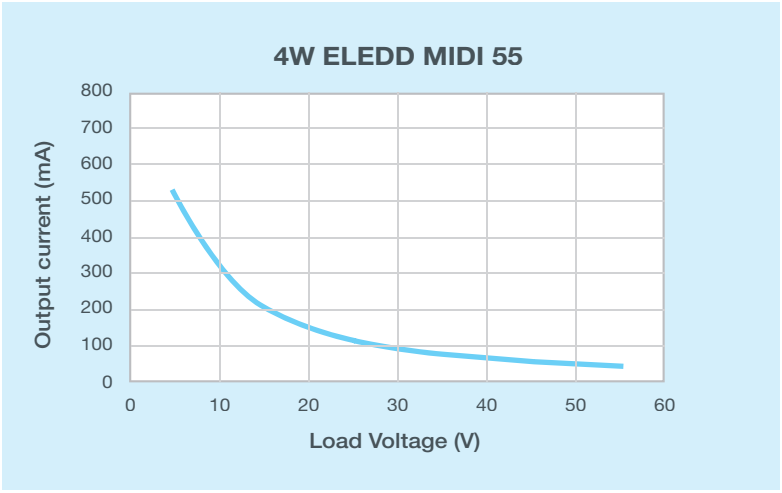
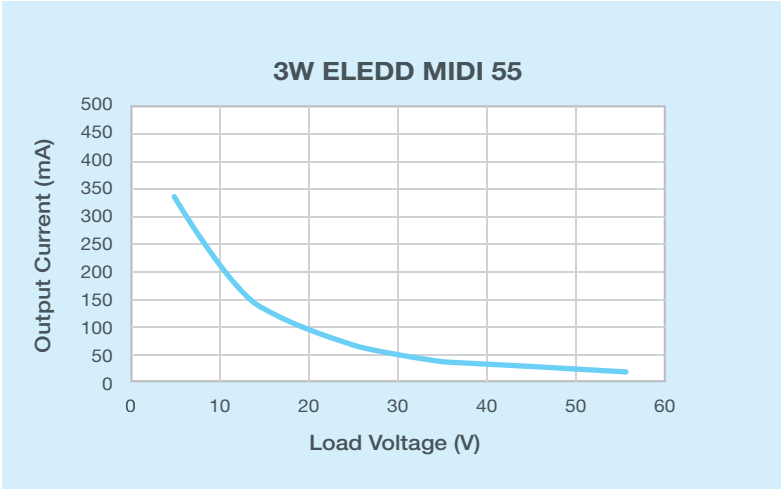


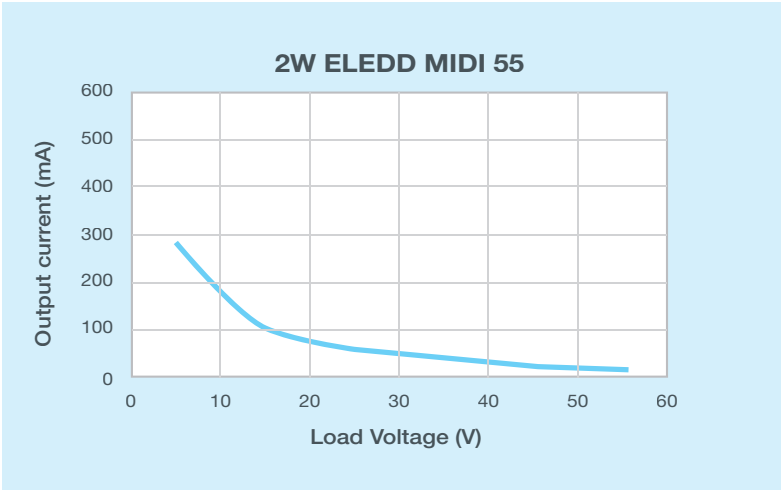
ELEDD MIDI 55

Compact Emergency LED Driver

Output Current







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ELEDD MIDI 55

Compact Emergency LED Driver

ELEDD MIDI 55 is available with the following technology options:

✔ **Standard**

For applications where self-testing is not required or suitable, the option provides the same quality and performance expected of products, without the AutoTest® feature.

✔ **DALI AutoTest®**

Provides benefits by enabling testing and monitoring of an emergency lighting system either on-site or via an internet connection. DALI AutoTest® is ideal for monitoring larger buildings and multiple sites.

Order codes

Standard*

Order Code	Description
9005333	MIDI 55V 2W 3hr NiCd Emergency LED Driver
9005342	MIDI 55V 3W 3hr NiCd Emergency LED Driver
9005344	MIDI 55V 3W 3hr NiMH Emergency LED Driver
9005358	MIDI 55V 4W 3hr NiCd Emergency LED Driver
9005360	MIDI 55V 4W 3hr NiMH Emergency LED Driver

DALI*

Order Code	Description
9005335	MIDI 55V 2W 3hr NiCd Emergency LED Driver
9005346	MIDI 55V 3W 3hr NiCd Emergency LED Driver
9005348	MIDI 55V 3W 3hr NiMH Emergency LED Driver
9005362	MIDI 55V 4W 3hr NiCd Emergency LED Driver
9005364	MIDI 55V 4W 3hr NiMH Emergency LED Driver

Batteries

Order Code	Description
9005247	Battery NiCd 4C 2Ah Stick
9001642	Battery NiCd 4C 4Ah Stick
9001652	Battery NiCd 3C 4.5Ah Stick
9001664	Battery NiMH 3C 4Ah Stick
9001666	Battery NiMH 2+2C 4Ah Twin Stick

LED Indicators

Order Code	Description
9001715	520mm Diffused Bi-Colour LED Complete With Bezel
9001737	520mm Diffused Green LED Complete With Bezel

Kits - Standard

Order Code	Description
9005628	MIDI 55V 2W 3hr with 4C 2Ah NiCd Stick & 520mm Green LED Indicator
9005637	MIDI 55V 3W 3hr with 3C 4Ah NiCd Stick & 520mm Green LED Indicator
9005639	MIDI 55V 3W 3hr with 3C 4Ah NiMH Stick & 520mm Green LED Indicator
9005653	MIDI 55V 4W 3hr with 4C 4Ah NiCd Stick & 520mm Green LED Indicator
9005655	MIDI 55V 4W 3hr with 4C 4Ah NiMH Stick & 520mm Green LED Indicator

Kits - DALI

Order Code	Description
9005630	MIDI 55V 2W 3hr with 4C 2Ah NiCd Stick & 520mm Bi-Colour LED Indicator
9005641	MIDI 55V 3W 3hr with 3C 4Ah NiCd Stick & 520mm Bi-Colour LED Indicator
9005643	MIDI 55V 3W 3hr with 3C 4Ah NiMH Stick & 520mm Bi-Colour LED Indicator
9005657	MIDI 55V 4W 3hr with 4C 4Ah NiCd Stick & 520mm Bi-Colour LED Indicator
9005659	MIDI 55V 4W 3hr with 4C 4Ah NiMH Stick & 520mm Bi-Colour LED Indicator

* Other variants may be available on request. Contact your Mackwell sales representative for further information.

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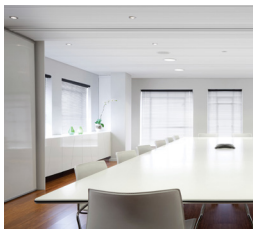

ELEDD MIDI 55

Compact Emergency LED Driver

Compatibility

Technology	Type	Duration	Article Number	NiCd 3C 4.5Ah 9001652	NiCd 4C 2Ah 9005247	NiCd 4C 4Ah 9001642	NiMH 3C 4Ah 9001664	NiMH 4C 4Ah 9001666
Standard	2W	3hr	9005333		●			
	3W	3hr	9005342	●				
	3W	3hr	9005344				●	
	4W	3hr	9005358			●		
	4W	3hr	9005360					●
DALI	2W	3hr	9005335		●			
	3W	3hr	9005346	●				
	3W	3hr	9005348				●	
	4W	3hr	9005362			●		
	4W	3hr	9005364					●

ICEL

bsi. ISO 9001 Quality Management FM12393 ISO 14001 Environmental Management EMS516467

WARRANTY

ELEDD MIDI 55 drivers are warranted for three years, which covers faulty workmanship and materials. This "Return to Base" warranty requires that the product is used within the terms and conditions stated above, in our literature and on our website. Products returned to us under warranty must be carriage paid. Mackwell Electronics Ltd. accept no liability for cost incurred.

Mackwell maintains a policy of continuous development and reserves the right to change the details shown on this data sheet without prior notice.

The contents are intended for guidance only.

Company Reg No: 1414873. VAT Reg No GB330230618

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