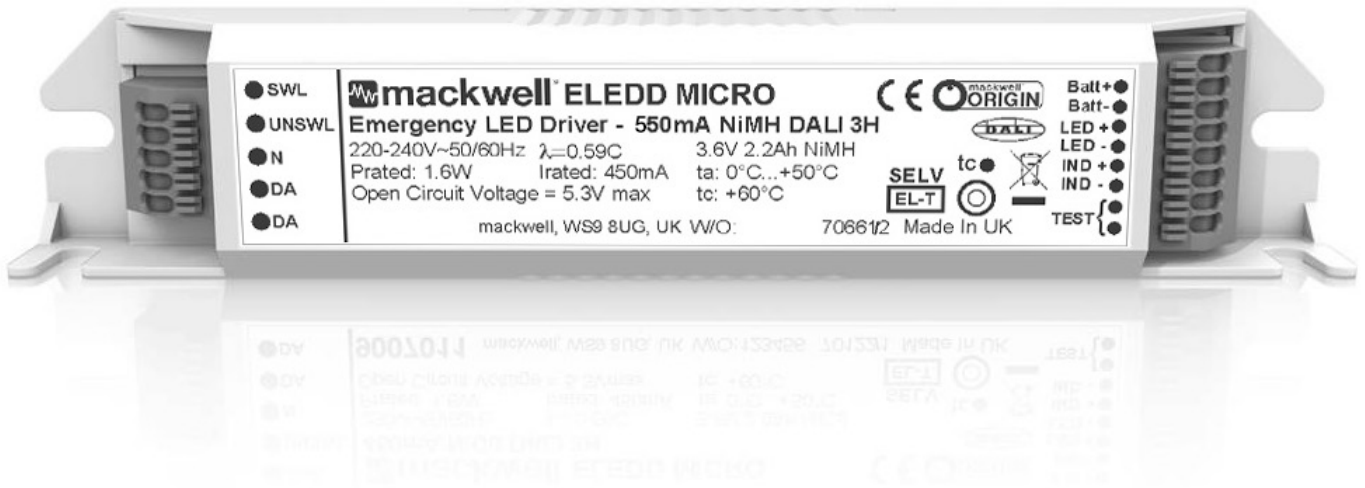


ELEDD MICRO 550

Compact Micro Controlled Emergency LED Driver



Images are for illustrative purposes only

ELEDD MICRO 550



Compact Intelligent
Configurable LED
Driver

Compact Micro Controlled Emergency LED Driver

The ELEDD MICRO is a range of micro-processor controlled emergency drivers with Mackwell's unique Origin technology platform at its core. It provides fully compliant DALI AutoTest functionality and enables a variety of emergency solutions including directly driving emergency luminaires and integral conversions.

The Origin technology within the ELEDD MICRO system enables the driver to be pre-configured to suit defined applications. This includes the ability to be given specific charge and discharge properties prior to shipment allowing perfect harmony of the control gear, battery and LED load.

Intelligent battery management is integral to the design, allowing optimum efficiency of batteries and prolonging life in high temperature applications.

Key features:

- Multiple output variants
- Origin technology platform
- Intelligent battery protection
- Diagnostics
- Stabilised output current
- DALI functionality option
- Compact size
- Excellent EMC performance
- Low power consumption
- BSI & Kitemark approved

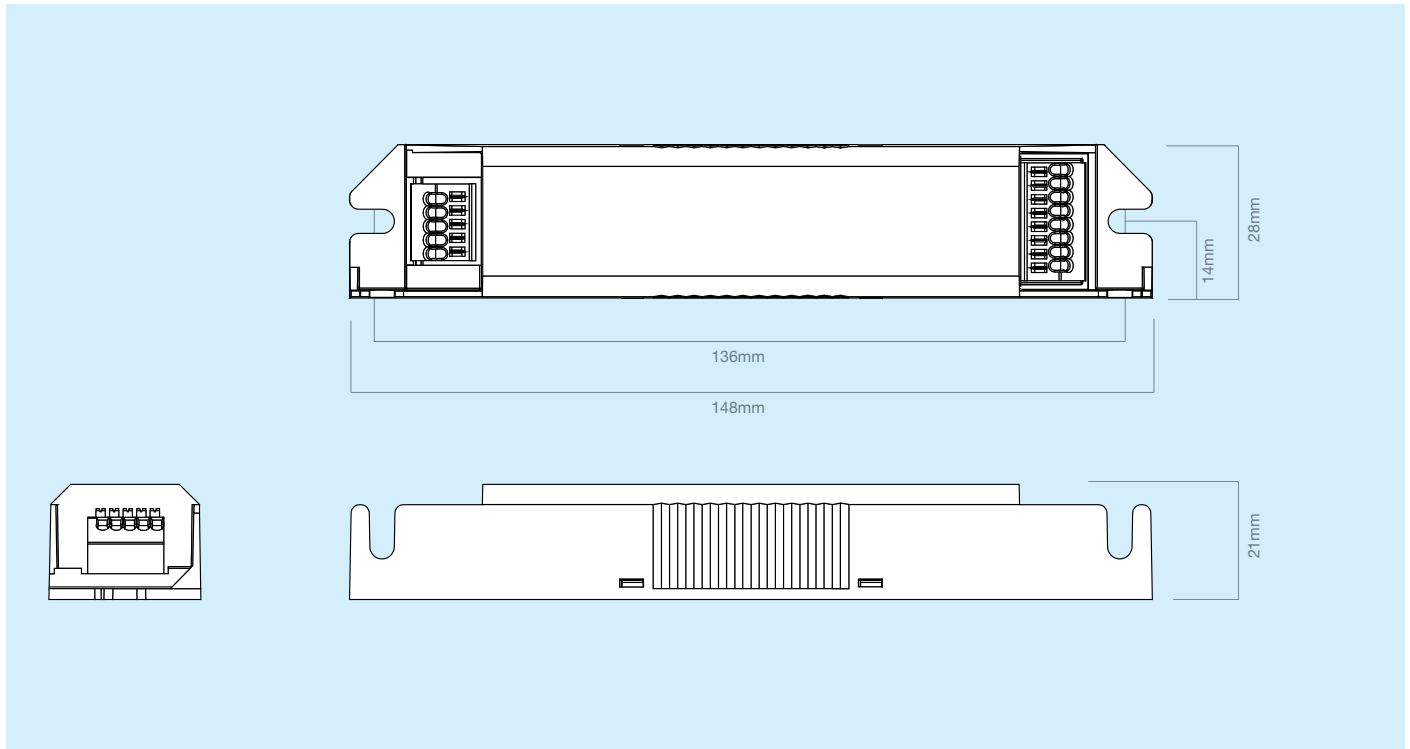




ELEDD MICRO 550

Compact Micro Controlled Emergency LED Driver

Dimensions



Driver Specifications

Supply voltage	:	220 to 240 V
Supply frequency	:	50/60 Hz
Supply current	:	10 to 40 mA
Power factor	:	>0.62
Output voltage (max)	:	4 V
Output voltage (min)	:	2.8 V
Total circuit power (max)	:	5 W
Total circuit power (nominal)	:	0.9 W
Ambient temperature (ta)	:	0 to +50°C
Max case temperature (tc)	:	+60°C
Conductor size	:	0.2 to 0.5mm ²
Battery temperature (NiCd)	:	0 to +50°C
Battery temperature (NiMH)	:	0 to +40°C
Battery charge current	:	
NiCd (2Ah)	:	95 to 105 mA
NiMH (2.2Ah)	:	105 to 110 mA
NiMH (4Ah)	:	195 to 200 mA
Battery discharge current	:	0.45 to 0.95 A
Battery charge voltage	:	3 to 5.25 V
Battery discharge voltage	:	3 to 4.65 V
Intermittent charge current	:	
NiMH (2.2Ah)	:	0 to 110 mA
NiMH (4Ah)	:	0 to 198 mA
Emergency duration	:	1 or 3 hours
Recharge period	:	24 hours
Weight of control gear	:	53 g

Relevant Standards

EN 61347-1
 EN 61347-2-7
 EN 61347-2-13
 EN 62034
 BS 5266-1
 ICEL 1004

Batteries

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

Emergency Output Factor (EOF) Specifications

EOF ₁	:	1
Output current (<i>Emergency</i>)	:	
550 mA variants	:	550 mA
Output current (<i>Normal</i>)	:	
550 mA variants	:	550 mA

Features

Origin is an intelligent technology platform with diagnostic capabilities that enables us to understand and control the effects of environmental factors on the efficiency and reliability of our emergency drivers.

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.

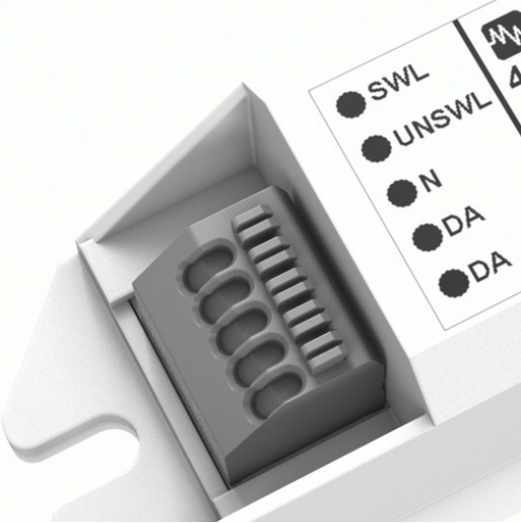
Technology Options

Standard

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

DALI

Provides benefits by enabling testing and monitoring of an emergency lighting system either on-site or via an internet connection. DALI is ideal for monitoring larger buildings and multiple sites. The product defaults to standalone AutoTest when not connected to a DALI network.



ELEDD MICRO 550

Compact Micro Controlled Emergency LED Driver

Order codes

Standard

Order Code	Description
9007027	ELEDD MICRO 550mA NiMH 3H
9007029	ELEDD MICRO 550mA NiCd 3H
9007031	ELEDD MICRO 550mA 4Ah NiMH 3H

DALI

Order Code	Description
9007026	ELEDD MICRO 550mA NiMH DALI 3H
9007028	ELEDD MICRO 550mA NiCd DALI 3H
9007030	ELEDD MICRO 550mA 4Ah NiMH DALI 3H

Note: Additional variants may be available on request. Please contact your Mackwell sales representative for further information

Compatibility

Technology	Type	Article Number	NiCd 3C 2Ah 9005957 <small>(KRMU 23/43)</small>	NiMH 3C 2.2Ah 9005254 <small>(HRMT 17/50)</small>	NiMH 3C 4Ah 9001664 <small>(HRMT 18/72)</small>
Standard	550mA	9007027		●	
	550mA	9007029	●		
	550mA	9007031			●
DALI	550mA	9007026		●	
	550mA	9007028	●		
	550mA	9007030			●



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.

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