

Sapphire DALI Emergency 4W 1000mA Driver

Suitable for Li-ion Battery Cells



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Range

DGLCEM100CD2L2



Overview

A range of high quality DALI Emergency LED drivers, designed in Australia to provide a constant current output at 350mA, 700mA or 1000mA. Capable of driving a designated emergency lighting LED or LED array when the mains AC power has failed or is unavailable.

The drivers are designed specifically to charge Diginet Li-ion batteries (available separately from Diginet).

The driver can be mounted inside a luminaire, designated control gear housing or be used as a separate emergency driver for connection to a remote emergency LED light engine. When used separately, clips are available to suitably attach and retain the battery pack to the driver.

This device incorporates Diginet Xi Extended Intelligence which provides additional features, functionality and information when connected to the Diginet RAPIX Emergency monitoring system.

Features

Fully compatible with Diginet's
RAPIX Emergency Lighting
Monitoring System

Rated to operate in battery mode
for 90/120 minutes in accordance
with the relevant Australian
Standard for emergency escape
lighting and exit signs for
buildings

Can be wired to operate in Non
Maintained or Maintained modes

Test switch and bi-colour LED
status indicator supplied with
the driver

Automatically self-test and
report the device status via the
bi-coloured LED status indicator
when the device is not
connected to a DALI Line

350mA, 700mA and 1000mA are
designed to drive one LED in
series or multiple 'single' LED's
in parallel

Cable strain relief for Mains
and DALI wiring

Designed to charge Diginet
Li-ion batteries (sold separate)

Fully tested to and complies
with DALI standards IEC 62386-
101, IEC 62386-102 and IEC
62386-202 (using a DALI-AG
approved tester)

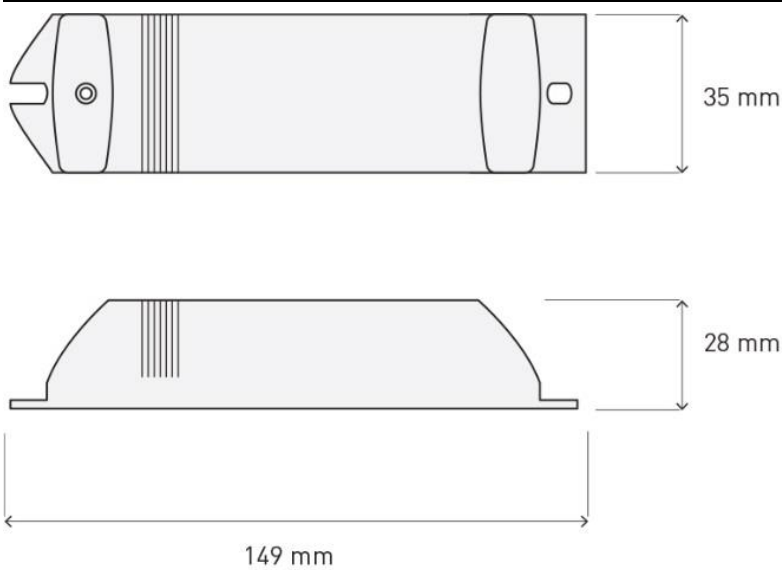
Specifications

Electrical	
Nominal Output Current	1000mA ($\pm 7\%$)
Input Current <i>Idle</i>	9mA @ 240V Idle
<i>Trickle Charging</i>	10mA @ 240V
<i>Charging</i>	24mA @ 240V
<i>1 LED Maintenance</i>	40mA @ 240V
<i>2 LED Maintenance</i>	
Input Voltage/Frequency	220-240V ac / 50-60Hz
Input PF	≥ 0.6
Input Power <i>Idle</i>	0.5W @ 240V
<i>Trickle Charging</i>	0.6W @ 240V
<i>Charging</i>	3.4W @ 240V
<i>1 LED Maintained</i>	6.2W @ 240V
<i>2 LED Maintained</i>	N/A
Battery Cell Count	2 Cell
Battery Pack Voltage	6.4V
Battery Type (not included)	Li-ion (LiFePO ₄)
Battery Cell Capacity	3200mAh
Battery Charger	Dual Rate
Battery Detection	Auto Detection
DALI Line Current Draw	≤ 2 mA
DALI Dimming	NOT DIMMABLE on Mains ac or Emergency
Operational Modes	Non Maintained/Maintained-Switchable/Maintained-Permanent
Isolation	≥ 3.75 kV ac Line to SELV terminals ≥ 1.5 kV ac Line to DALI terminals
Load Protection	Open Circuit/Short Circuit/Overload/Thermal
Short Circuit	Auto Recovery

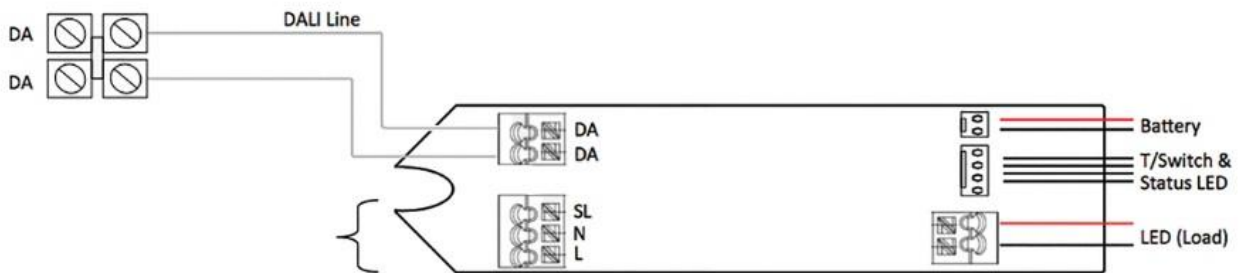
Mechanical	
DALI Line terminals	1 x 1.5mm ² solid/stranded per tunnel (2 tunnels)
Mains AC Supply terminals	1 x 1.5mm ² solid/stranded per tunnel (3 tunnels)
Emergency LED terminals	1 x 1.5mm ² solid/stranded per tunnel (2 tunnels)
Material (Driver Housing)	Flame Retardant Polycarbonate
Weight (Driver)	90g
Lead Length (Battery Pack)	230mm (both 2 and 3 Cell)
Lead Length (Remote Head)	Maximum 2 metres between the Driver & the remote LED head
Lead Length (T/Switch-LED)	300mm

Environmental	
System Rated Life (Driver)	50000 Hours
Ambient Operating Temp	0°C to 50°C
Ambient Storage Temp	85°C (@ Ta = 50°C)
Operating Humidity	0% to 95% RH non condensing
IP Rating	IP20

Dimensions



Driver Connections



Approvals & Compliance



CONTACT INFORMATION

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PRODUCT OF DIGINET CONTROL SYSTEMS PTY LTD

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A MEMBER OF THE GERARD LIGHTING GROUP

The product includes a **FIVE-YEAR WARRANTY** against manufacturing defects. Fully warranty terms can be found here www.diginet.net.au

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