150253 Driver

40W Max Constant Current Tunable Driver

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Product Code	Dimming & Controls
150253	DALI2 (DT8)

Order Code **150253**

Product Features

- Single-channel constant current output
- Selectable output current via DIP switch (500mA/ 600mA/ 700mA/ 800mA)
- Supports DALI and Touch DIM functions for smooth dimming
- Tunable white with DALI DT8 Protocol
- Short circuit protection (SCP); Over voltage protection (OVP); Over current protection (OCP); Over thermal protection (OTP)

Driver Compliance

SELV

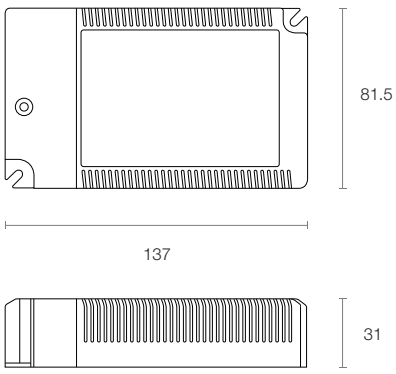
Product Attributes

DT8 DIM | IP20 | NON IC

Physical Characteristics

Driver Colour	Black
Dimensions (LxWxH)	137 x 81.5 x 31 mm
Weight	225 g

Dimensions (mm)



Output Parameters

Voltage	9-42V DC
Current	500mA | 600mA | 700mA | 800mA
Wattage	34W Max
Current Accuracy	±5%

Input Parameters

Voltage	220-240V AC 50/60Hz
Current	0.2A Max*
Efficiency	87%
Power Factor	>0.90

* Inrush Current: Cold start, 12A @240V AC

General Characteristics

Dimming Mode	DALI2 (DT8)
Protection	SCP, OVP, OCP, OTP
Working Temperature	-20°C to 50°C
tc	90°C
Ingress Protection	IP20
Insulation Contact	Non-IC
Lifetime	50,000 hours

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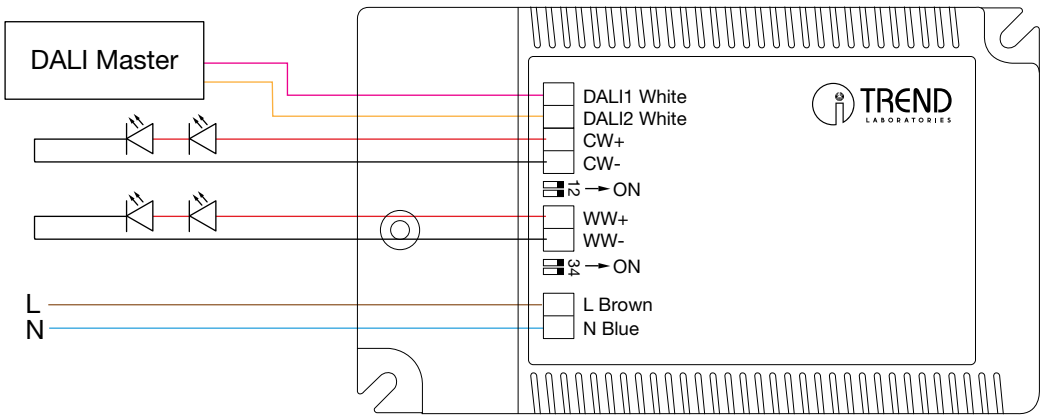
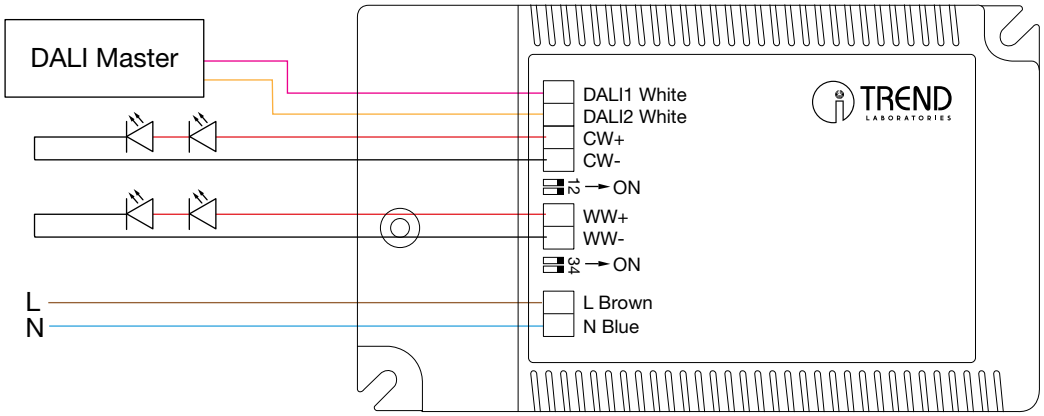
Wiring Diagram

DALI Diagram *



* Note: When the DALI signal is not connected, the output power of WW (warm light) channel is full, while that of CW (cold light) channel is not.

Touch DIM Diagram **



** Note: Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

Push DIM/ Colour Switch

1. Press and hold the Push DIM switch for 8 seconds or longer to activate the push dimming mode.
2. Briefly press the Push DIM switch to turn the lamp on or off and return it to the last saved memory state.
3. Press and hold the Push DIM switch to dim the light; upon release, it will stop at the current brightness. Each subsequent press will adjust the brightness in the opposite direction, with a dimming range of 5% to 100%.
4. Double-click the Push DIM switch to turn the lamp to its maximum brightness and cool light setting (this function is also used to adjust the consistency of multiple power supplies within the same circuit).
5. The Colour Switch is only functional after entering push dimming mode.
6. Briefly press the Colour Switch to set the colour temperature mode, offering 9 settings between 2,700K and 6,500K.
7. Long press the Colour Switch to continuously adjust the colour temperature. Each long press will modify the colour temperature in the opposite direction, with a range from 2,700K to 6,500K.
8. Double-click the Colour Switch to turn the lamp to its maximum brightness and cool light setting (this function is also used to adjust the consistency of multiple power supplies within the same circuit).

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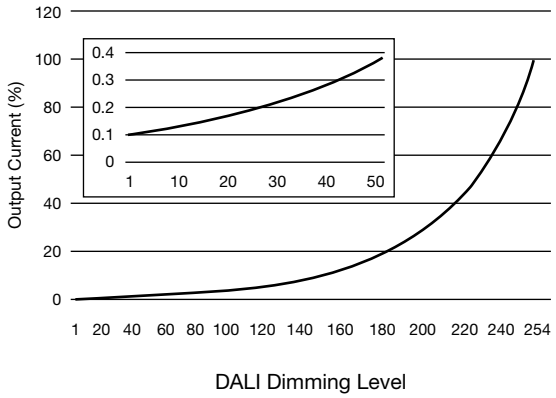
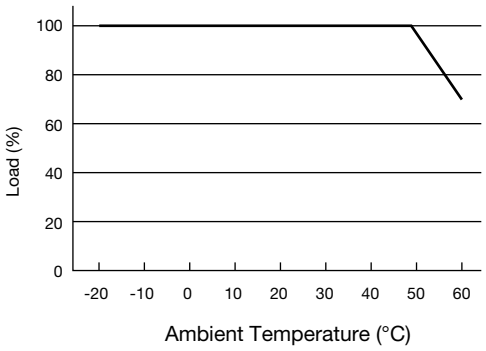
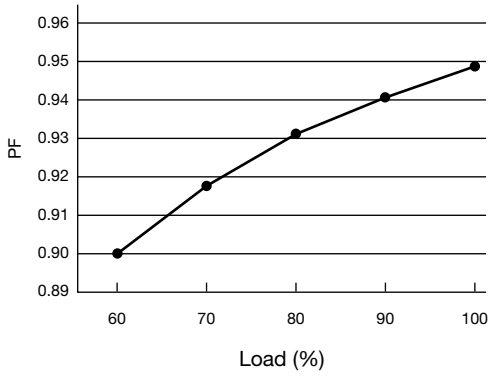
Dimming Curve



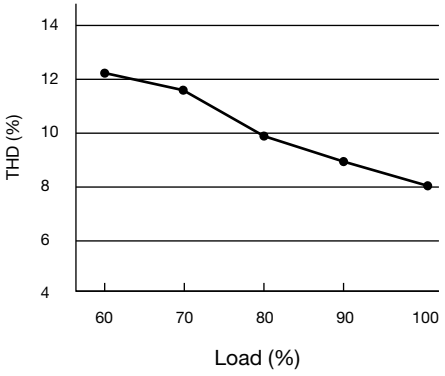
Derating Curve



PF vs Load



THD vs Load



Current Selection Table

Current	CW-1	CW-2	WW-1	WW-2
500mA	OFF	OFF	OFF	OFF
600mA	ON	OFF	ON	OFF
700mA	OFF	ON	OFF	ON
800mA	ON	ON	ON	ON

Cautions

1. The product must be installed by a licensed electrician.
2. DALI and Touch DIM functions cannot be used simultaneously.
3. This product is not waterproof. When used for exterior lighting application, please ensure that the driver is not subject to water ingress.
4. Good heat dissipation will prolong the working life of the LED Driver. Ensure the driver is mounted in a location with adequate ventilation.
5. Ensure the output voltage and current of the driver meets the requirements of the LED they are powering.
6. This product is not user serviceable. If a fault occurs, return the driver to your supplier.

The contents of this manual may be updated without prior notice.
If you are uncertain about any of the driver specifications or instructions,
please contact Trend Lighting for the most up-to-date copy of this document.

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