

DIMMER

4 CHANNEL CONSTANT VOLTAGE DALI LED

web	elevagegroup.com.au
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SITE

High-performance four-channel constant-voltage DALI LED dimmer, designed for smooth dimming and precise control of single-colour, dual-colour, RGB and RGBW low-voltage lighting systems.



[figure 1]

St John of God:
Façade Lighting
DMX Application

KEY FEATURES

- 4 channel constant voltage DALI LED Dimmer
- 1 DALI address, DT6 dimming or DT8-TC colour temperature or DT8-RGB or DT8-RGBW selectable
- DALI-2 , In accordance with DALI standard protocol certified IEC 62386-102, IEC 62386-207, IEC 62386-209 and in compliance with DALI products from other international incorporation
- DALI address will be automatically assigned by DALI master
- PWM digital dimming, standard DALI logarithmic dimming curve
- Over-load / Short circuit protection, recover automatically

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TECHNICAL SPECIFICATIONS

CATEGORY	PARAMETER	SPECIFICATION
Input and Output	Input Voltage	12–48V DC
	Input current	20.5 A
	Output voltage	4 x 5 A at 12/24 V 4 x 3 A at 36/48 V
	Output power	4 x 60 W at 12 V 4 x 120 W at 24 V 4 x 108 W at 36 V 4 x 144 W at 48 V
	Output type	Constant Voltage
Dimming Data	Input Signal	DALI
	Dimming Range	0-100%
	Dimming Curve	Logarithmic
	PWM frequency	2000 Hz (default)
Environmental	Operating temperature	–20°C to +55°C
	Maximum case temperature	Tc: +85°C
	IP rating	IP20

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Warranty and Protection	Warranty	5 years
	Protection	Reverse-polarity, overload and short-circuit protection
Package	Dimensions	L178 × W50 × H38 mm
	Gross Weight	0.14 kg

COMPLIANCE + CERTIFICATION

CATEGORY	STANDARD/ CERTIFICATION
EMC standards	EN IEC 55015:2019+A11:2020 EN 61547:2009 EN IEC 61000-3-2:2019+A11:2021 EN 61000-3-3:2013+A1:2019
Safety standards (LVD)	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Certification	CE, EMC

ORDERING CODE STRUCTURE

SURGE-4CH-DT8-RGBW-DALI

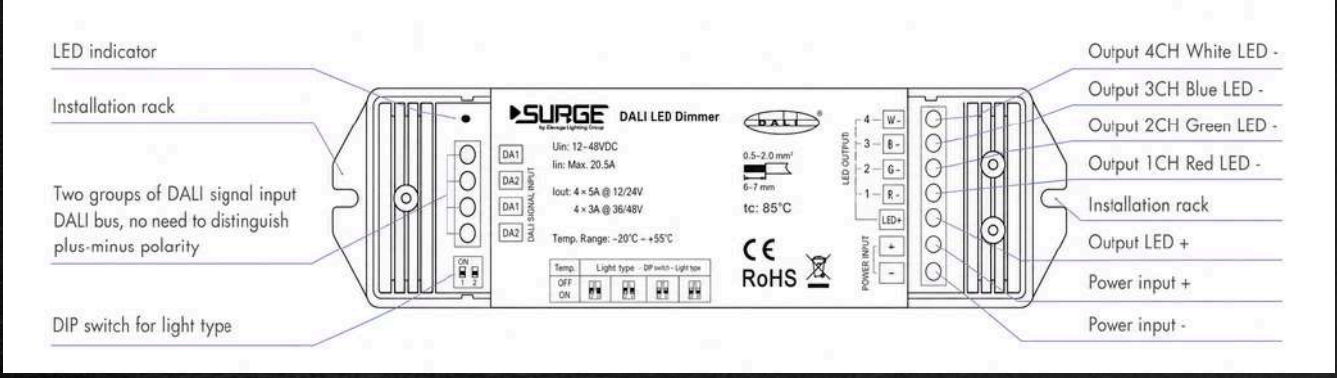
2 year warranty

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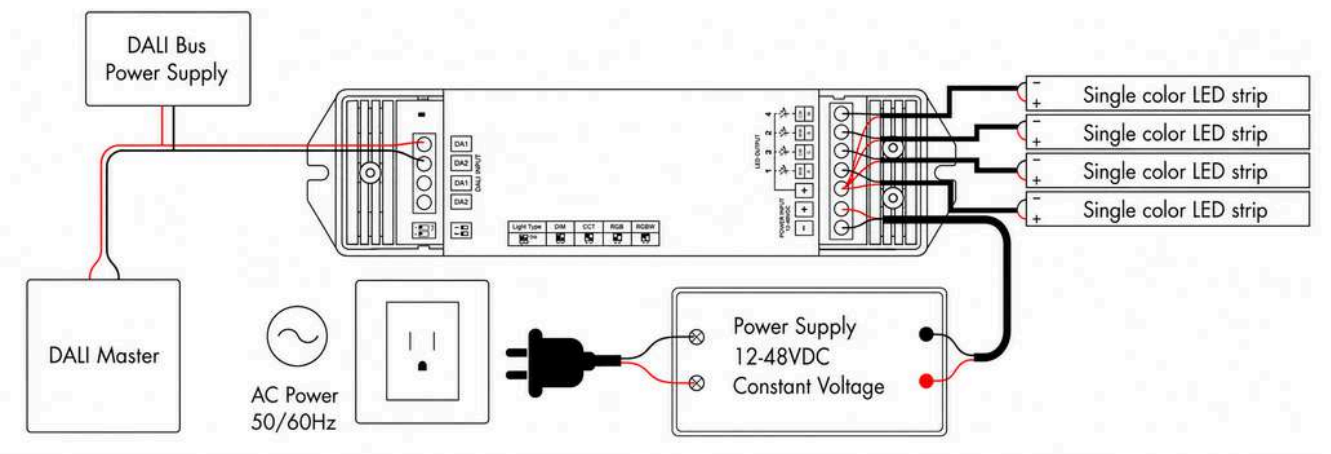
MECHANICAL STRUCTURE, INSTALLATION + WIRING DIAGRAMS

4 Channel Constant Voltage DALI LED Dimmer

MECHANICAL STRUCTURES AND INSTALLATIONS

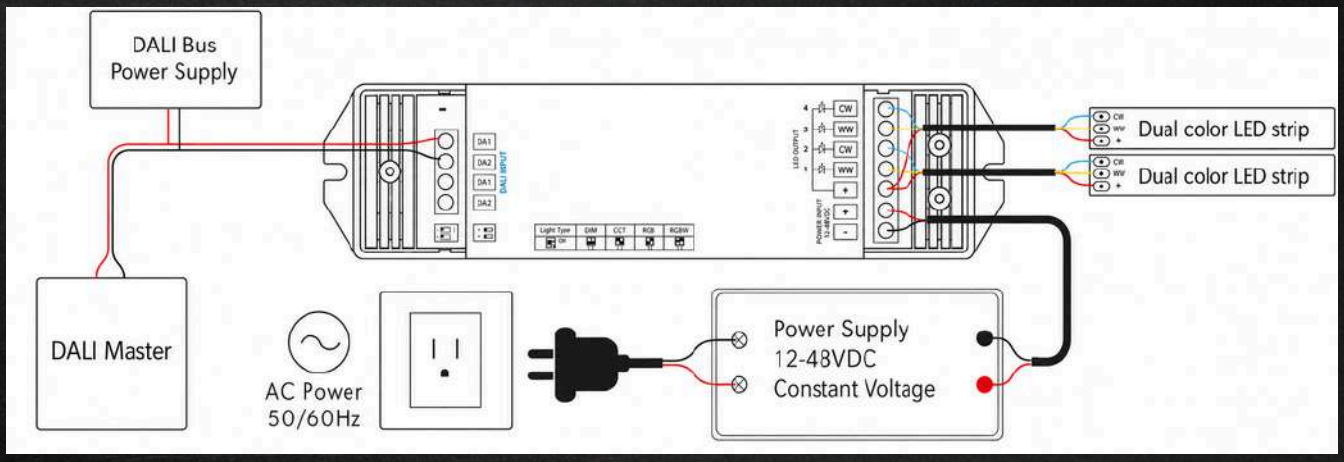


WIRING DIAGRAM - SINGLE COLOUR



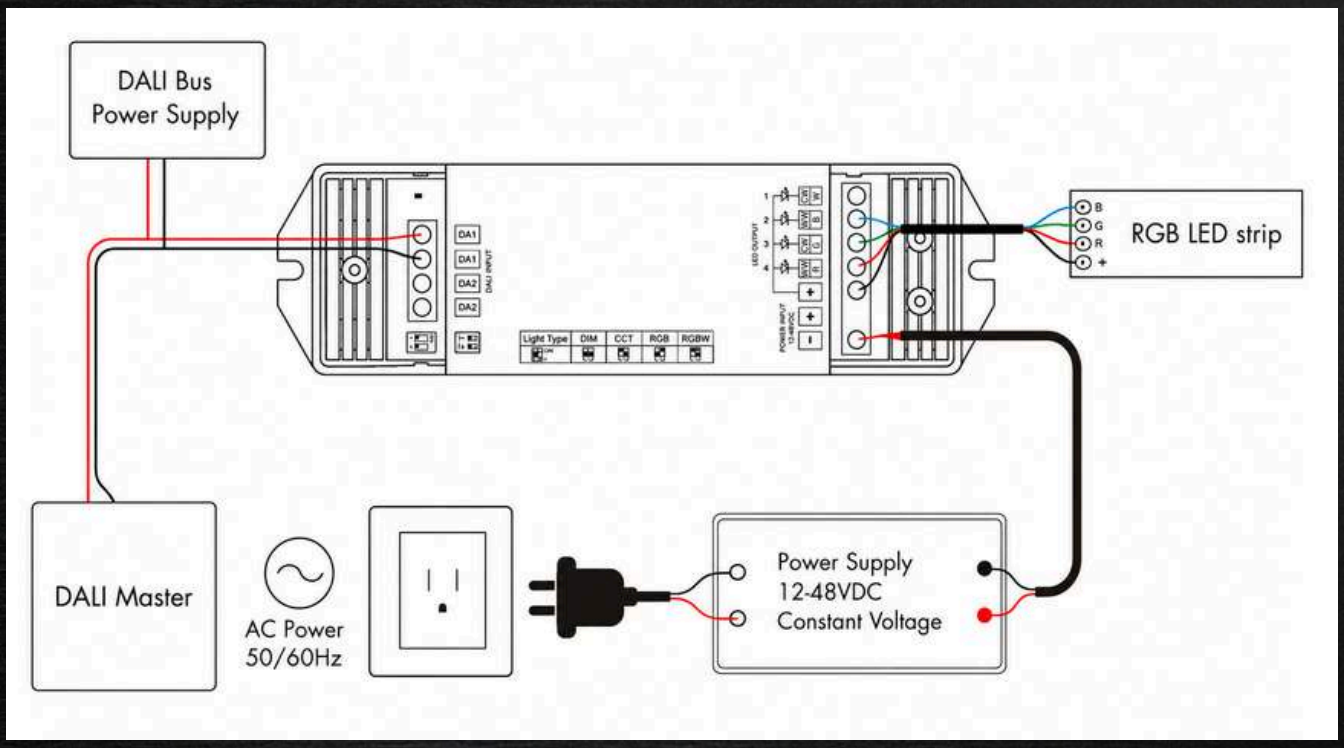
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WIRING DIAGRAM - DUAL COLOUR



The 3/4 LED channel output is the same as ½ LED channel*

WIRING DIAGRAM - RGBW



The 4th LED channel no output*

DALI CONTROL

This product is designed with 1 DALI address input and 4 channel output, DALI address is assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.


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