

WE **DRIVE** LIGHTCustomer Care
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JB Series | DALI-2

Specification Sheet

Up to 576 Watts, Multi-Zone Output
24VDC CV LED Drivers & DALI-2 Controllers

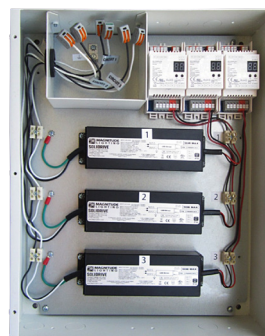
Key Features

- Pre-wired for up to 6 zones of 96W/24VDC output.
- Supports Tunable White & Static White applications
- DALI-2 address can be manually assigned or automatically assigned by master controller. Up to 4 addresses per each controller.
- Deep Dimming to 0.1%
- Professional appearance covered & ventilated enclosures
- Surface mount or recessed mount into finished walls
- Recessed model fits in between standard wall studs & has oversized cover to hide seams for clean installation

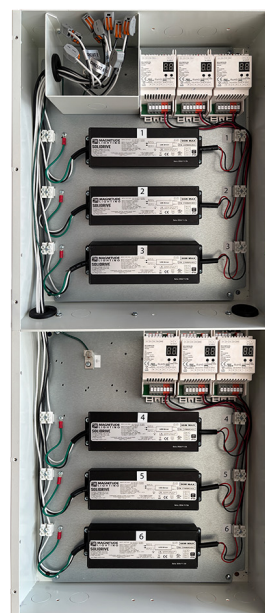
Specification Overview

- Each 96W output includes 1 to 4 DALI-2 addresses configurable for 4 DALI-2 channels to work in-sync or separately
- Supports DALI-2 standard protocol
- DALI-2 DT6 in compliance with IEC 62386-101, 102, 207
- Multi-Zone output (96W per Zone)
- Universal input voltage 120 to 277VAC
- Class 2, 24V constant voltage
- UL2108, Title 24 / JA8, CSA C22.2 No. 250.2
- 5-year warranty

Single Box
2 or 3 Zones



Double Box
4 to 6 Zones



120-277V

24VAC

CLASS 2

SELV



ORDERING INFORMATION

Model		Zones		Driver	Control Platform		Mounting		Finish	
JBZN				CVN96R24DC	D6				W	
JBZN	JB Zone Dimmable	3	3-ZN	SoliDrive Non-Dimmable, 120-277V Input, 96W, Recognized, 24VDC CV Output	D6	DALI-2 DT6	R	Recessed	W	White
		4	4-ZN				S	Surface Mount		
		5	5-ZN							
		6	6-ZN							

ENCLOSURE DETAILS

Dimensions	Material	Finish	Environmental
Single Box (2 to 3 Zones): 14.0" W x 16.9" H x 4.2" D (357 x 429 x 107mm)	Stamped Steel	Powder Coat	Dry Location
Double Box (4 to 6 Zones): 14.0" W x 33.7" H x 4.2" D (357 x 856 x 107mm)	Stamped Steel	Powder Coat	Dry Location

SPECIFICATIONS
Input

Input Voltage Range	120 to 277VAC $\pm$ 10%
Input Frequency	50 / 60Hz
Input Current	0.96A Max/Zone @ 120V
Inrush Current	5A Max @ 120V
Efficiency	> 84%
Power Factor	0.95
THD	< 20%

Output (per Zone)

Output Voltage	24VDC Constant Voltage
Output Power	96W (DALI-2 4ch x 24W, 3ch x 32W, 2ch x 48W)
Max Load	96W per Zone
Output Current @ Maximum Load	4.1A
Flicker	California Title 24 / JA8
Output Ripple (Peak-to-Peak)	< 3%
Line Regulation	< 2%
Load Regulation	< 3%
Turn On Delay Time	< 0.5 sec

Environmental

Ambient Operating Temperature	-20°C to 50°C (-4°F to 125°F)
Maximum Case Temp. (Tcase)	90°C (194°F)
Storage Temperature	-40°C to +85°C (-40°F to 185°F)
Enclosure	Dry Location
Cover Screws	Stainless Steel
Expected Lifetime	$\geq$ 80,000 hrs @ Tc $\leq$ 60°C

Dimming

Output Dimming Method	DALI-2 DT6
Minimum Dimming Level	0.1%
Minimum Load for Dimming	5W per channel
Dimming Curve	Logarithmic

Protection

Over Current Protection	Yes
Over Voltage Protection	Yes
Over Temperature Protection	Yes / Hiccup Mode
Overload Protection	Yes / Current Limit
Short Circuit Protection	Yes / Current Limit

Approval Markings & Certifications

Listing	UL2108, Title 24 / JA8, CSA C22.2 No. 250.2
Certifications	Class 2

DALI-2 CONTROLLER SPECIFICATIONS

Input

Input Voltage Range 24VDC

Output

Output Voltage 24VDC

Output Dimming Method DALI-2 DT6

Minimum Dimming Level 0.1%

DALI-2 Consumption 2mA per controller

Features

Tunable White Requires 2 DALI-2 addresses; 1 address for WW & 1 address for CW

DALI-2 Compliance IEC 62386-101: 2014, 102: 2014, 207 Ed.2

DALI-2 Interface Built-in DALI-2 interface, DALI-2 DT6 device compatible with all DALI-2 systems

DALI-2 Address Manual or Automatic DALI-2 address setting 00 to 63 with digital display to indicate DALI-2 address

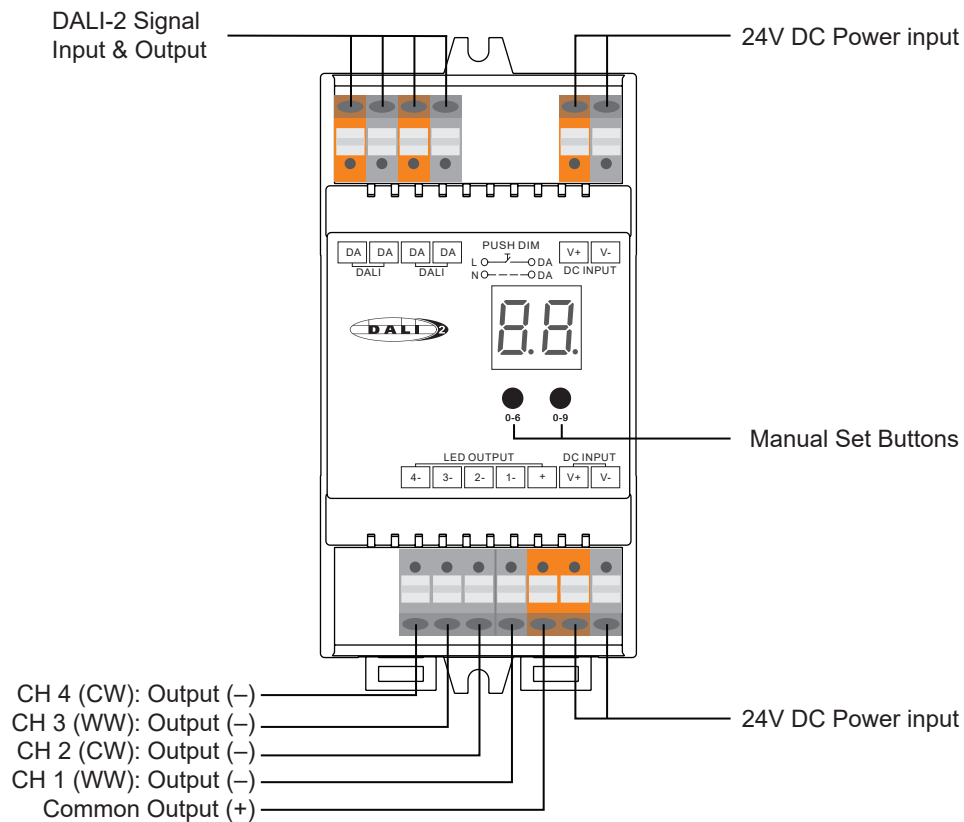
Push dimmer option Yes

Channels 4 channels – can set addresses from 1 to 4

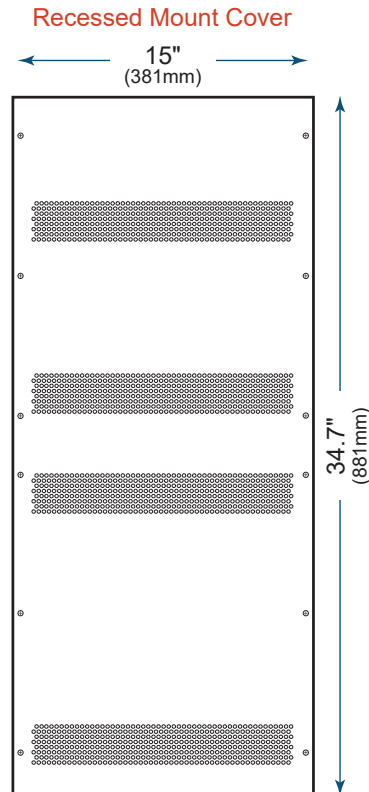
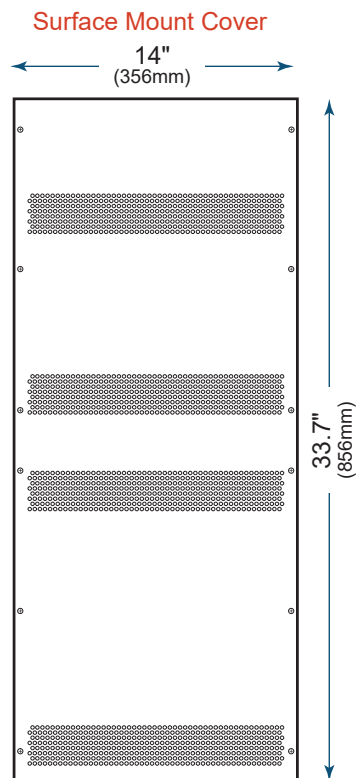
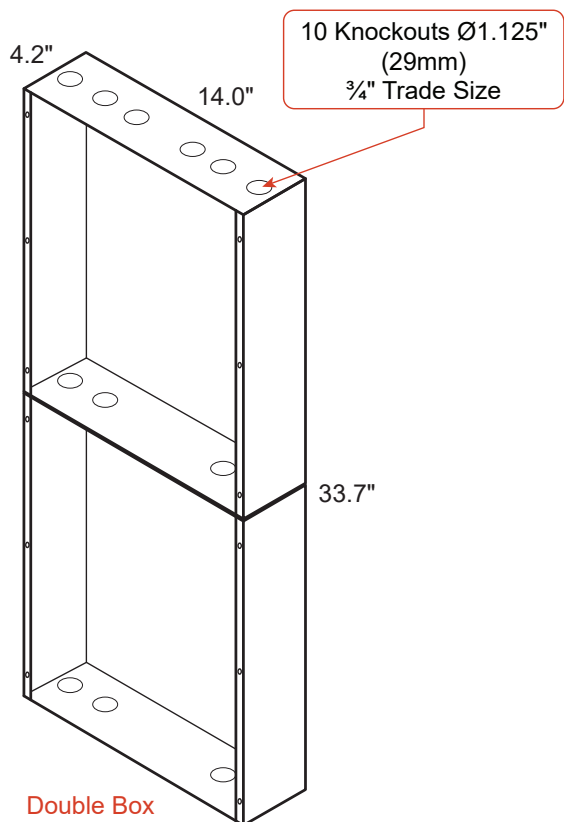
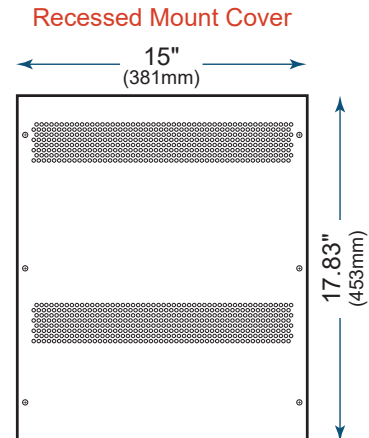
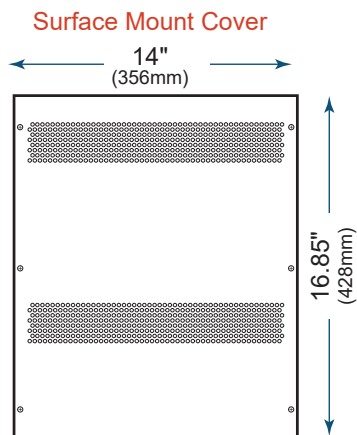
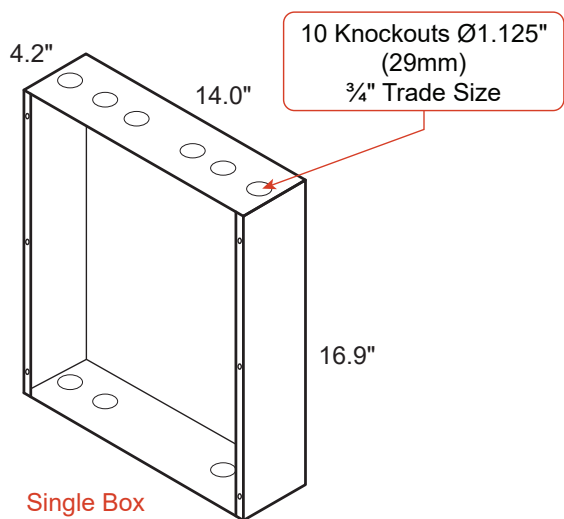
DALI-2 Bus power supply Not included. Separate DALI-2 Bus power supply required (by others)

Master DALI-2 Controller Not included (by others)

DALI-2 CONTROLLER

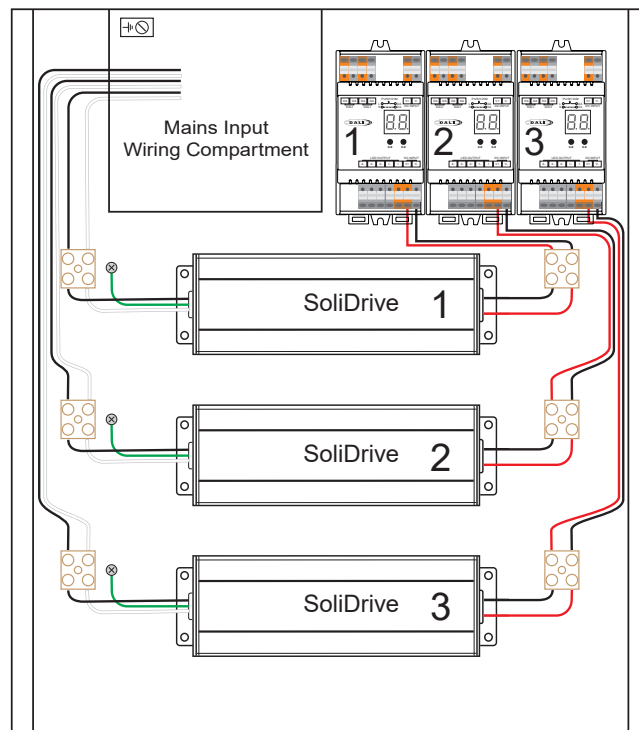


MECHANICAL DIAGRAMS

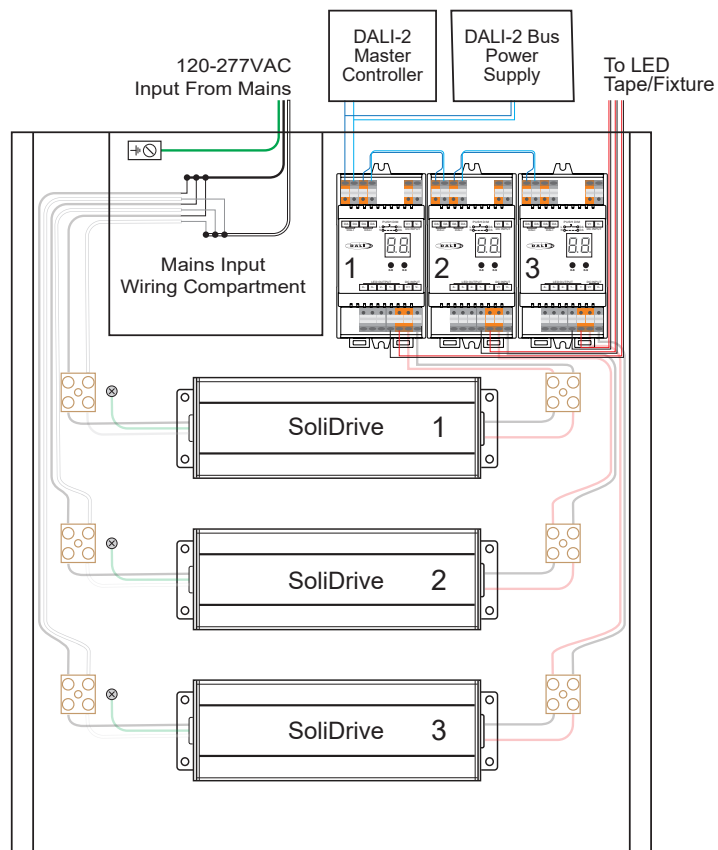


WIRING DIAGRAMS

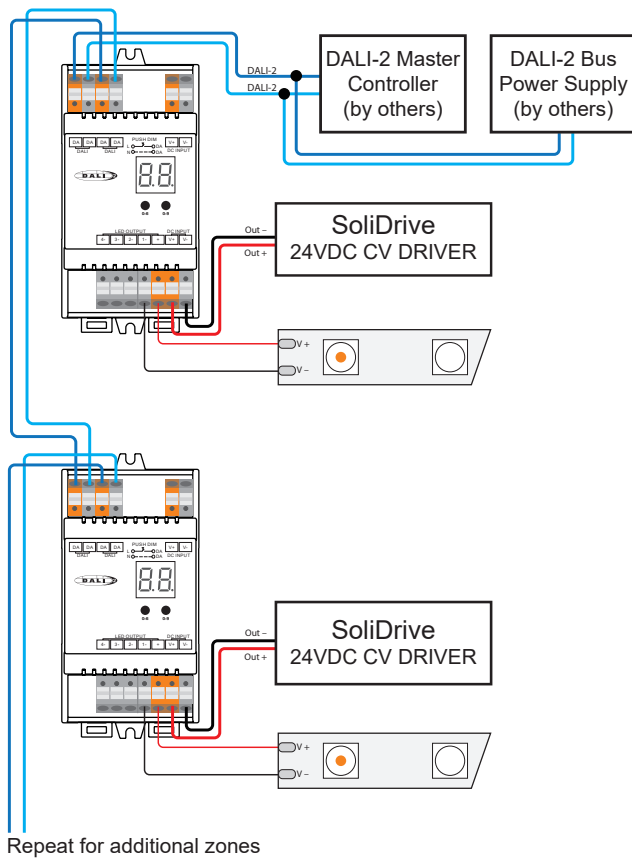
Wired at the Factory →



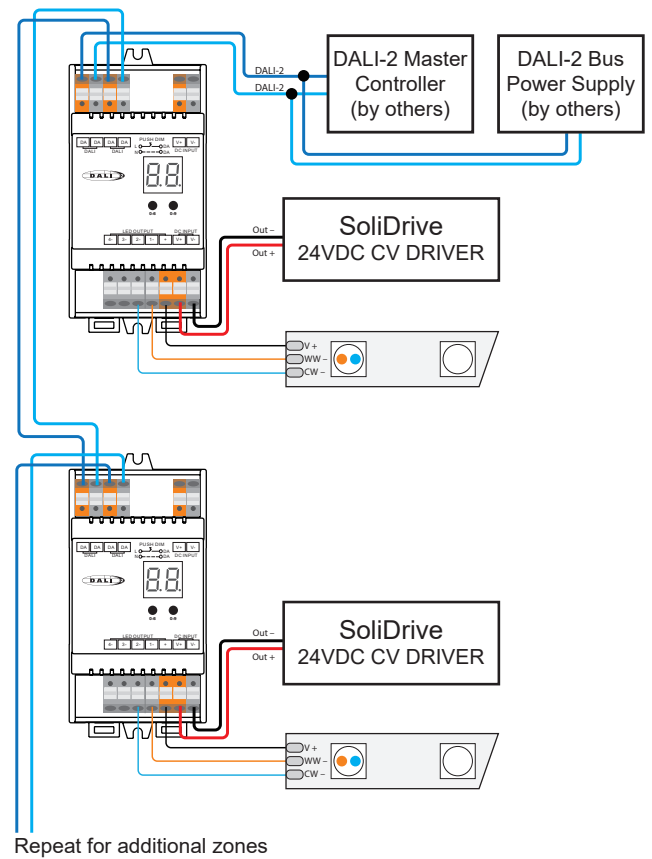
Wired in the Field →



WIRING DIAGRAMS



Static White Wiring



3-Wire Tunable White Wiring

Note: Requires 2 DALI addresses; 1 address for WW and 1 address for CW.