

TDXL2 Modules

Sign Cabinet Lighting



Key Features

- Ultra-long life LED modules are designed to deliver unparalleled lighting performance while maximizing spacing inside the cabinet.
- Single or double-sided options are available; Ideal for 3"-18" from the sign cabinet face.
- 24VDC loading allows for more modules per power supply for efficient installations.

Electrical

- 24VDC input.
- 0-10V dimming available via controller accessory (sold separately).
- Operating temperature: -40°C to 55°C (-40°F to 131°F)

Mounting

- Single-sided modules come with VHB adhesive tape to attach to the back of the sign cabinet.
- For double-side modules, extrusion mounting kits are available for easier retrofit installations (sold separately).

Construction

- The low-profile form factor allows versatility for sign cabinet installations.
- Modules are IP66 rated to prevent penetration of dust and moisture.
- Single-sided dimensions: 3.30"x1.61"x0.157"
- Double-sided dimensions: 5.59"x1.57"x0.307"

Optics

- 170° beam angle for wide light distribution.
- Industry-leading LEDs with 3000K, 4000K, 5000K, & 6500K CCT (minimum 70 CRI).
- Lumen maintenance: 200,000 hours (L70) ¹

Warranty

- Backed by US LED's industry-leading Ten-Year Warranty.

Project	Date
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Catalog Number	Type
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Product Performance Summary

Lumen Output	Up to 800 lumens
Efficacy	Up to 160 LPW
CRI	≥ 70 CRI
Available CCT	3000K, 4000K, 5000K, and 6500K
Warranty	Ten-Year Warranty

Product Overview

You no longer have to box yourself in when retrofitting sign cabinets! For brilliant illumination, turn to the TDXL2 modules, the latest generation of sign cabinet lighting solutions. These LED modules are available with single or double-sided options and are designed to provide uniform illumination while maximizing spacing. In addition, more modules can be loaded on a single power supply compared to the previous generation and deliver unparalleled performance. TDXL2 allows you to truly look at the bright side of every signage project with faster and easier installation.

Product Applications

- Single-Sided Sign Cabinets
- Double-Sided Sign Cabinets
- Large Stroke Channel Letters
- General Signage

Product Certifications

- UL Recognized (USA/Canada)
- Suitable for Wet Locations
- IP66 Rated



Example: TDXL2-1-S-24-W

Ordering Information

TDXL2				
Series	Variant	# Sides	Voltage	CCT
1	Standard	S Single Sided	24 24VDC	W30 3000K
		D Double Sided		W40 4000K
				W50 5000K
				W 6500K

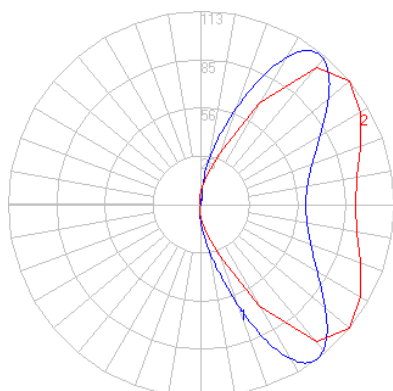
TDXL2 Accessories	
PSB-1-24-96	US LED Class 2 Power Supply 24V 96W IP66 Rated
PS2-1-NA	Life Extender Power Supply Enclosure Natural Galvanized
04-000165-48	48" TX2L Extrusion
04-000165-72	72" TX2L Extrusion
04-000165-96	96" TX2L Extrusion
06-000035	Extrusion Joiner Bracket
TX1XL-Kit	Extrusion Mounting Kit: L-Brackets, Z-Brackets, and Screws Included

¹. US LED product 'Lifetimes' refer only to the LED light engine, not the power source, and are based on the Illuminating Engineering Society's TM21 Projected Lumen Maintenance methodology at a 25° C / 77° F ambient temperature. The lifetimes are solely meant to be a guide for expected LED degradation and not a warranty or predictive of their actual life, which can be affected by ambient temperatures and other factors.

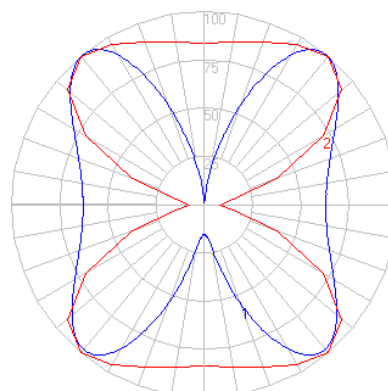
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Performance Data



TDXL2-1-S-24-W
Luminous Intensity Distribution



TDXL2-1-D-24-W
Luminous Intensity Distribution

Model	CCT	System Level Power	Delivered Lumens	Efficacy	L70 Calculated Life
TDXL2-1-S-24-W	6500K	2.5W	400	160 LPW	200,000 Hours
TDXL2-1-D-24-W	6500K	5.0W	800	160 LPW	200,000 Hours

Spacing Charts

Double Face Sign Cabinet Spacing Chart

Cabinet Depth	22"-36"	20"	18"	16"	14"	12"	10"	8"	6"
Multiple Row Spacing	24"	22"	20"	18"	16"	14"	12"	8"	6"
Module-To-Module Spacing	15"	15"	15"	15"	15"	15"	15"	15"	12"

Single Face Sign Cabinet Spacing Chart

Cabinet Depth	11"-18"	10"	9"	8"	7"	6"	5"	4"	3"
Multiple Row Spacing	24"	22"	20"	18"	16"	14"	12"	8"	6"
Module-To-Module Spacing	15"	15"	15"	15"	15"	12"	12"	10"	7"

Packaging Specifications

	Single-Sided	Double-Sided
Pallet	20,160 Modules	13,608 Modules
Master Case	480 Modules	378 Modules
Inner Case	240 Modules	126 Modules
Bag	30 Modules/Tray	18 Modules/Bag

Power Supply & Loading Specifications

	Direction	Minimum # of Modules	Maximum # of Modules
PSB-1-24-96	Single-Sided	4 Qty.	36 Qty.
PSB-1-24-96	Double-Sided	2 Qty.	18 Qty.

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Accessories

PSB-1-24-96 US LED 24V/96W Power Supply

Overview

The PSB 24V is a high-performance, Class 2 power supply unit intended for use with LED lighting in outdoor signage applications. It is designed to withstand moisture with an IP66 environmental rating and is RoHS compliant. The PSB is engineered to speed up installation and ensure reliable operation long term.

Key Features

- For use in outdoor signage applications
- 24VDC, Class 2 power supply
- 90-305VAC input voltage
- Complies with UL 879, UL 8750, UL 1310 and CSA 22.2
- Complies with FCC 47CFR Part 15
- Same loading as prior model PSA-24-100
- IP66 rated housing



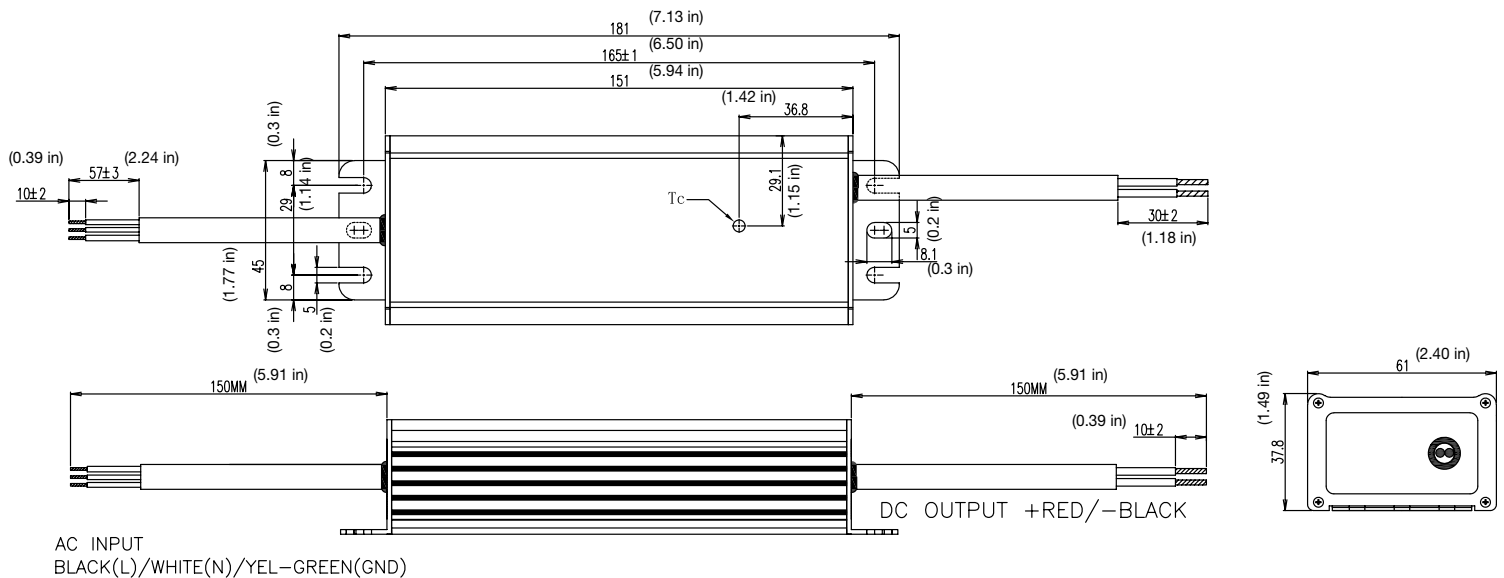
Electrical

- Input voltage: 90-305VAC (120V/1.05A), (230V/0.56A), (277V/0.50A)
- Output voltage: 24VDC
- Output current: 4.0A
- Output power: 96W max
- Operating temperature: -30°C to +50°C (-30°F to +122°F)

Construction

- Weight: 1.5 lbs. (0.68kg)
- 10 ct. package quantity
- Housing designed for high thermal capability

Dimensions



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Accessories

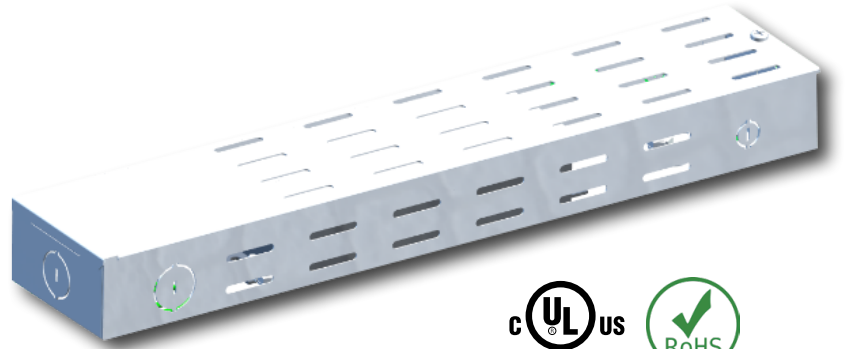
PS2-1-WT Life Extender Power Supply Enclosure | White

PS2-1-BK Life Extender Power Supply Enclosure | Black

PS2-1-NA Life Extender Power Supply Enclosure | Natural Galvanized

Overview

The PS2 is a multi-purpose power source Box used in LED lighting ranging from signage to commercial and industrial applications. The PS2 is designed to simplify installation of LED drivers and wire connections, all enclosed within one box. It's available as a UL Listed enclosure or as a junction box and LED driver combo. The enclosure is designed for indoor (dry/damp) locations and meets electrical code requirements. It has knockouts on both sides of the enclosure to accommodate all of the input and output connections.



Key Features

- Engineered for use with signage lighting, commercial lighting, and industrial lighting applications.
- Available as a UL Listed enclosure or as a junction box and LED driver combo.
- Suitable for air handling spaces.
- Complies with UL 879, UL 8750, UL 1310, and CSA 22.2
- Rated for indoor (dry/damp) locations.

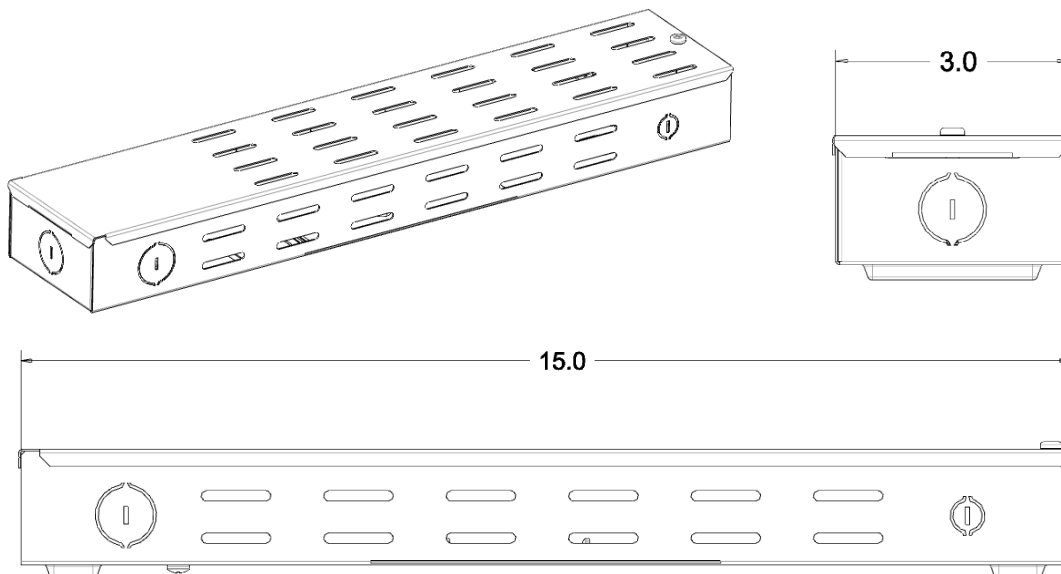
Construction

- Robust 24-gauge steel housing protects components from harsh environments.
- Ventilation on three sides of the enclosure optimize thermal management.
- Housing is protected by a corrosion resistant powder coat finish.
- Dimensions: 15 in. X 3 in. X 1.63 in.
- Weight: 1.30 lbs.

Mounting

- Suitable for cabinet or surface mounting use.
- Consult factory for additional mounting options.

Dimensions



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04-000165-48 48" TX2L Extrusion

04-000165-72 48" TX2L Extrusion

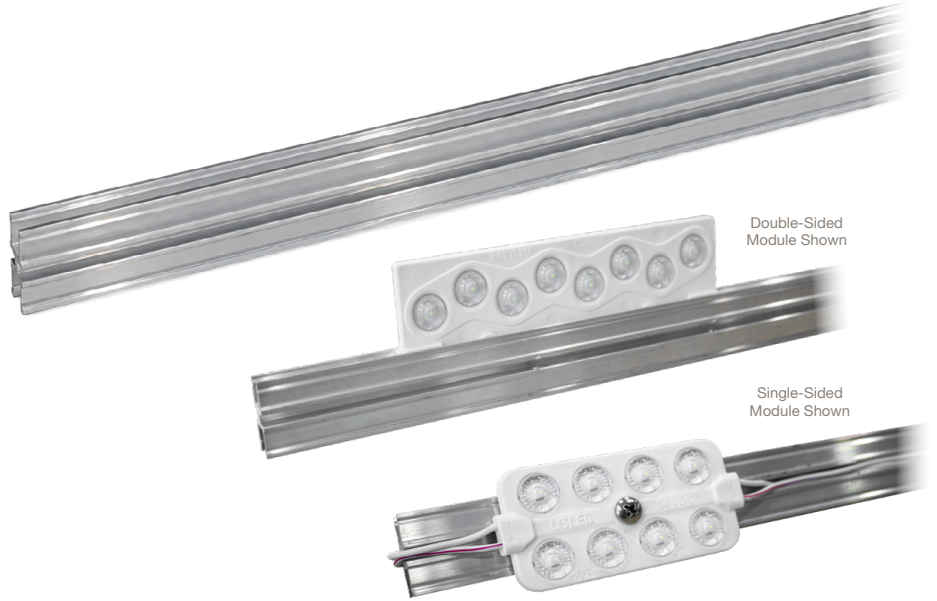
04-000165-96 48" TX2L Extrusion

Overview

US LED's aluminum extrusion provides a modular, precision-shaped mounting platform for quickly and easily installing US LED TDXL2 modules in new or retrofit sign applications. Its durable aluminum construction supports fast assembly, consistent module placement, and a clean, secure installation.

Key Features

- Available in 48", 72", and 96" standard lengths.
- Custom lengths available (consult factory).
- Durable, lightweight aluminum construction.
- Precision-shaped profile designed for fast, consistent TDXL2 module installation.
- Modular design helps simplify assembly and reduce overall installation time.



06-000035 Extrusion Interconnect Joiner Bracket

TX1XL-Kit Extrusion Mounting Kit With Hardware

Overview

The TX1XL-Kit provides the complete hardware needed to securely mount US LED aluminum extrusions for sign lighting applications. Each kit includes (2 qty.) L-Brackets, (2 qty.) Z-Brackets, and (4 qty.) round mounting screws for easier installation. A separate Joiner Bracket is available to interconnect extrusions when necessary.

