

AFLEX JB-SERIES

Specification Sheet

Constant Current Electronic 0-10V Dimmable LED Driver | Multi-Channel

The AFLEX JB (JUNCTION BOX)-SERIES delivers a multi-channel, specification grade solution for select Class 2 Magnitude electronic LED drivers, making it the perfect product for multi-output residential and commercial lighting applications. Available in surface or recessed mount, the high-quality metal junction box includes multiple 1½" knock-outs and comes pre-wired for quick and easy installation. The AFLEX JB-SERIES is constructed with a high voltage compartment and utilizes DIN rail terminal blocks to support independent channel outputs.

The JB AFLEX Compact-Series is available in 2 to 9 channel configurations. The AFLEX Compact-Series is an electronic Class 2 dimmable LED driver that features current limiting, hiccup mode, over temp protection as well as an efficiency of over 88%, resulting in low operating case temperature. The drivers are dimmable down to 0.1% with 0-10V dimmers. Dim to off programmable.

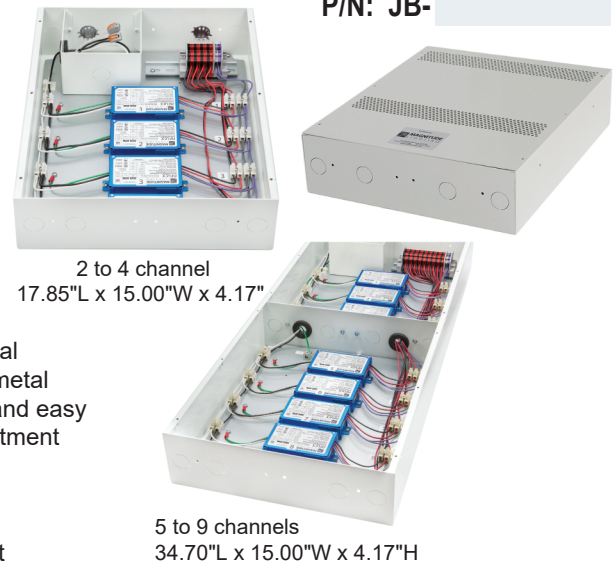
- Installation:** Integrated Junction Box with Multiple 1½" Knock-Outs
- Driver Type:** Class 2 Multi-Channel
- Dimming:** Dimmable Down to 0.1% with a 0-10V Dimmer
- Dim to Off:** Yes - Programmable
- Input Voltage:** 120VAC-277VAC, 50/60Hz
- Output Voltage:** 3 to 57 Volts
- Output Current:** 100 - 1400mA (1mA Step Programmable)
- Environmental:** Dry
- Listing:** UL Listed, Class P, Class 2
- Certifications:** UL2108 | CSA C22.2 No. 250.0
- Warranty:** 5-Year

Ordering Guide Example: JB-3-AFLEX-60W-1400-S-L-RW

JB— AFLEX— — S— — —

Type	Number of Channels	Driver Series	Max Power Per Channel	Output Current	Case Type	Dimming Curve	Mounting	Finish
JB — JB-SERIES	2 — 2 channel 3 — 3 channel 4 — 4 channel 5 — 5 channel 6 — 6 channel 7 — 7 channel 8 — 8 channel 9 — 9 channel	AFLEX — AFLEX Compact-Series	30W 40W 50W 60W	100-1400mA (3-57VDC)	S — Side Feed	G— Logarithmic L — Linear	R— Recessed S— Surface	W — White

	Up to 4 Channels	Up to 9 Channels
Length	Surface Mount 16.85" (427.99mm) Recessed Mount 17.83" (453.0mm)	Surface Mount 33.70" (855.98mm) Recessed Mount 34.70" (881.0mm)
Width	Surface Mount 14.00" (355.6mm) Recessed Mount 15.00" (381.0mm)	Surface Mount 14.00" (355.6mm) Recessed Mount 15.00" (381.0mm)
Depth	Surface Mount 4.17" (106.0mm) Recessed Mount 4.17" (106.0mm)	Surface Mount 4.17" (106.0mm) Recessed Mount 4.17" (106.0mm)



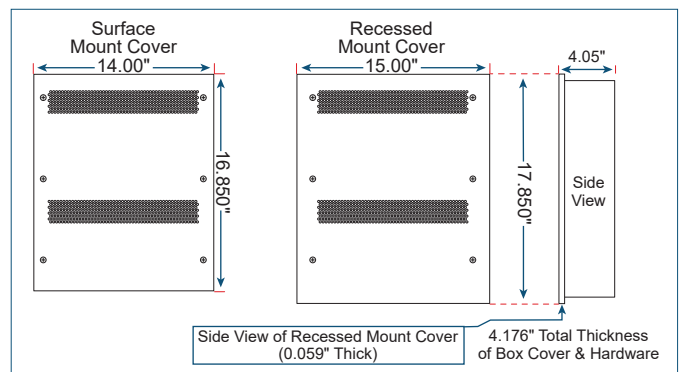
The AFLEX JB-SERIES contains 2 to 9 drivers and can be flush or recessed mounted. Constructed of galvanized steel with white powder coat.

DIMMABLE
 DIM DOWN TO 0.1%
 120 - 277VAC
 100 - 1400mA
 CLASS 2
 UL LISTED
 CLASS P
 RoHS Compliant
 TITLE 24 CA Compliant

AFLEX-SERIES is also available in:

- AFLEX Linear
- AFLEX Compact

Please refer to MagnitudeInc.com for more details.



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Specifications

Input

Input Voltage Range: Universal 120 - 277VAC \pm 10%
Input Frequency: 50 / 60Hz
Input Current: 0.29A-0.6A@120VAC / 0.15A-0.25A@277VAC* (Per Channel)
Inrush Current: 38A Max
Efficiency: > 88%
Power Factor: 0.991-0.992@120VAC / 0.90-0.95@277VAC (Refer to graph on page 5)*
* Depending on model

Output (Per Channel) 2 – 9 Channel

Output Voltage Range: 3 -57VDC
Output Current Range: 100 - 1400mA (1mA step programmable)
Output Current Tolerance: \pm 5%
Output Current Ripple: \pm 5% @ Max load
Line Regulation: \pm 0.5%
Load Regulation: \pm 0.5%
Turn On Delay Time: 0.4 sec @ Max load
Sensor Power Supply (Aux): 12V up to 80mA
Stand-By Power: >1W

Environmental

Env. Protection Rating: Dry
Surge Protection: 2.5kV
Operating Ambient Temp.: -40°C - +60°C
Operating Temperature: -40°C - +75°C
Storage Temperature: -40°C - +85°C
Expected Lifetime: 50k hours at 75°C
Audible Noise: < 24dB Class A
Withstanding Voltage: 2.5kV

Dimming

Dimming Control: 0-10V
Dimming Input Range: -2 to +15V
Dimming Curves: Linear / Logarithmic (Programmable)
Min. Dimming Level: Dim down to 0.1%
Dim to off: Yes (Programmable)
Current Consumption: 0.35mA / Source

LED Thermal Protection (NTC)

NTC Value (Manufacture: Vishay): 15 k Ω \pm 5% @25°C P/N: NTCS0805E3153JMT
Output Level Range: 1mA step programmable

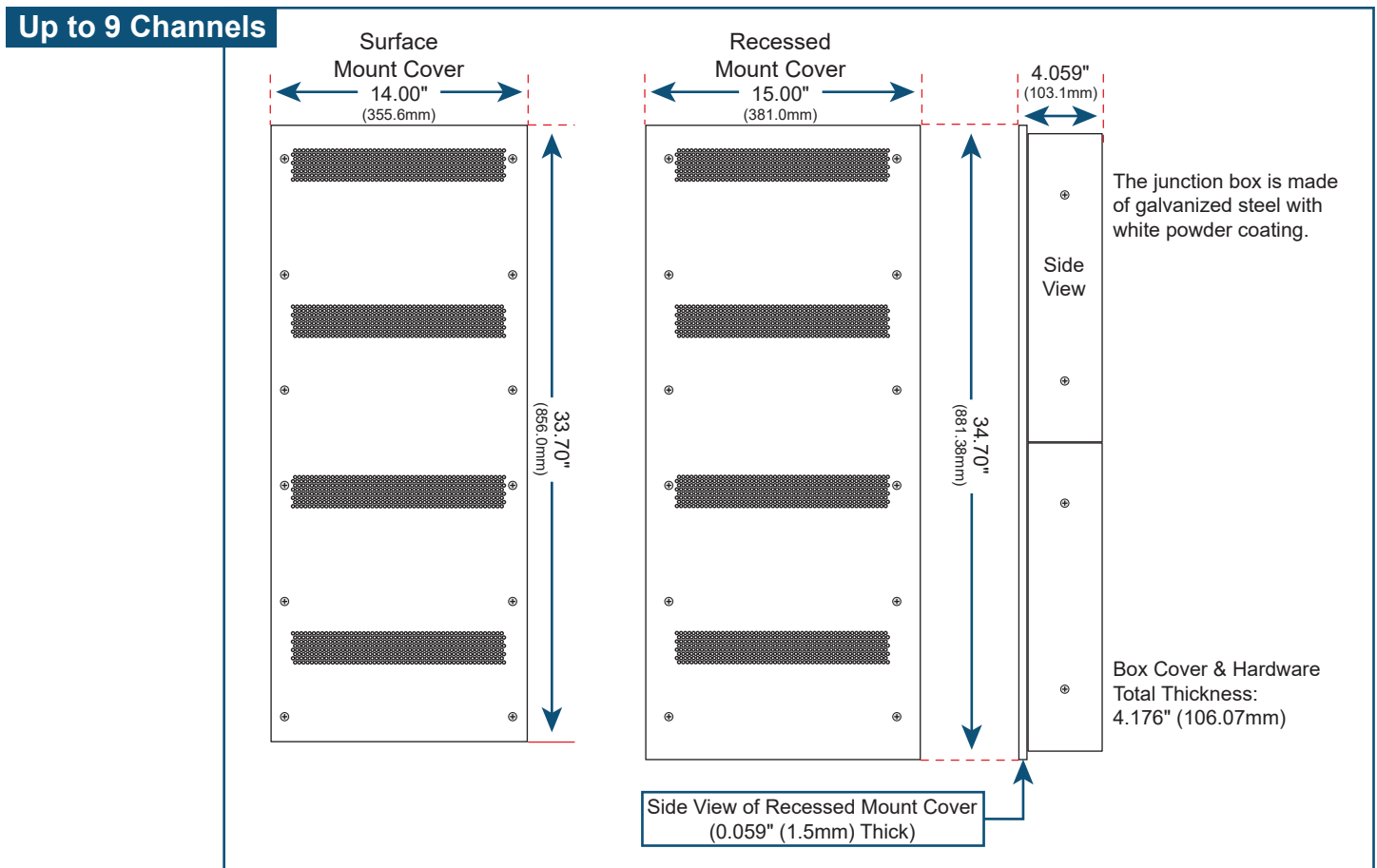
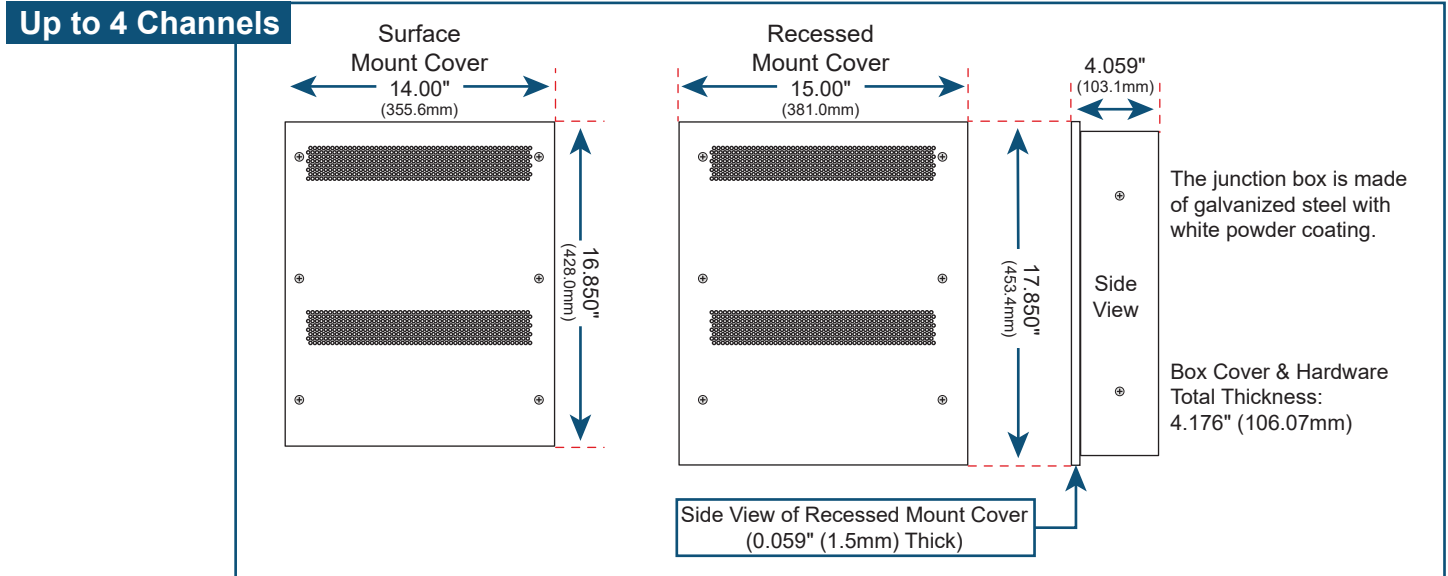
Protection

Over Current Protection: Current limiting
Short Circuit Protection: Hiccup mode
Over Voltage Protection: Hiccup mode
Over Temperature Protection: Power derating
Mis-Wiring Protection: Auto shutdown

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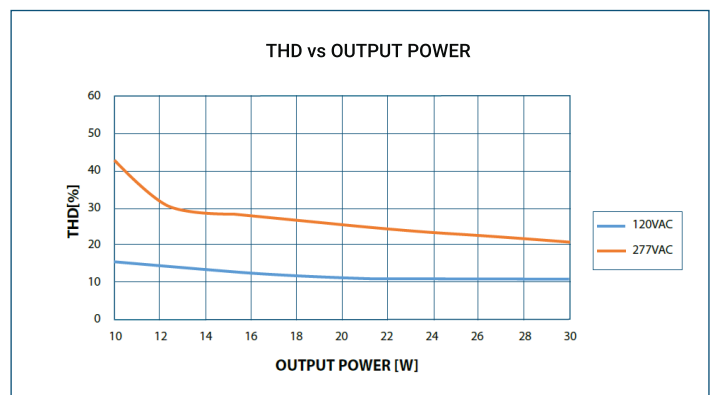
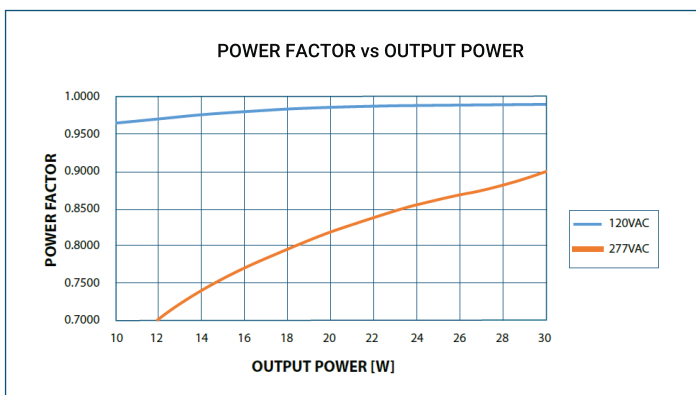
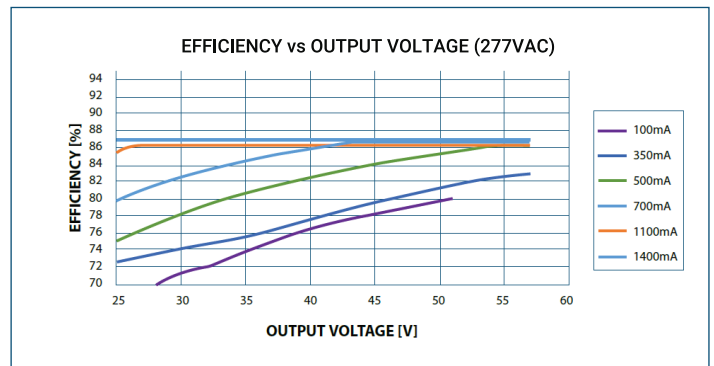
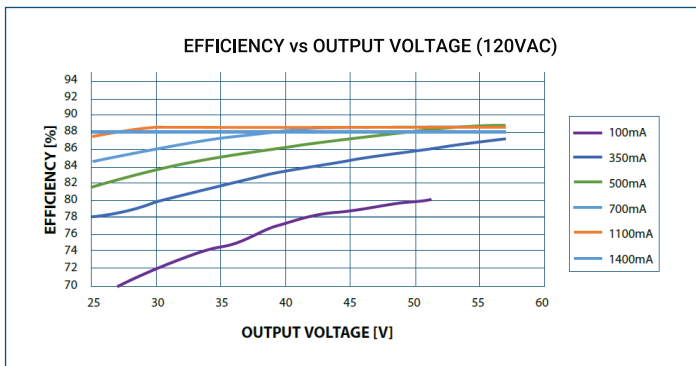
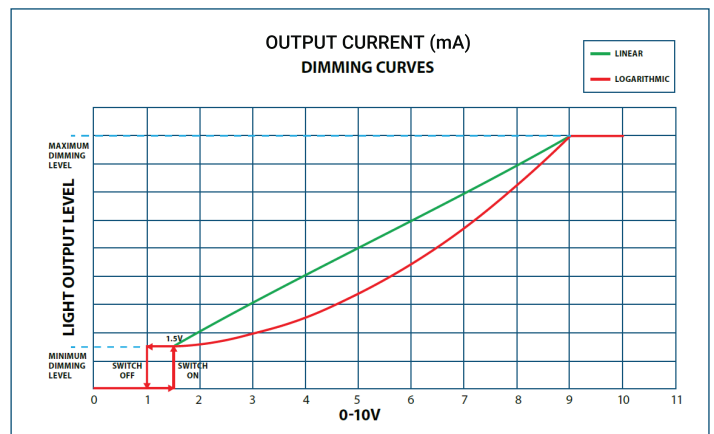
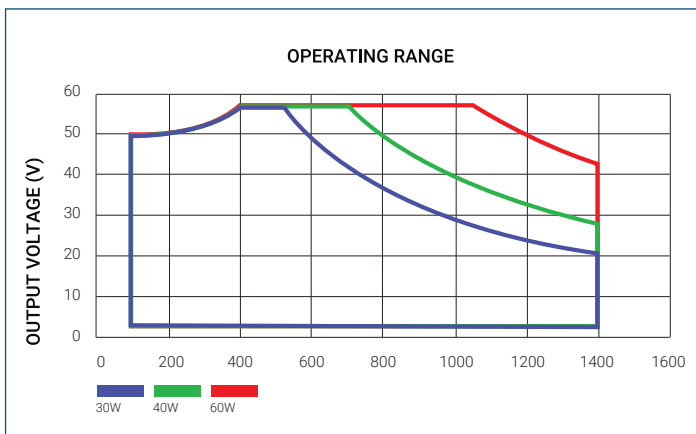
Mechanical Diagrams



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Per Channel

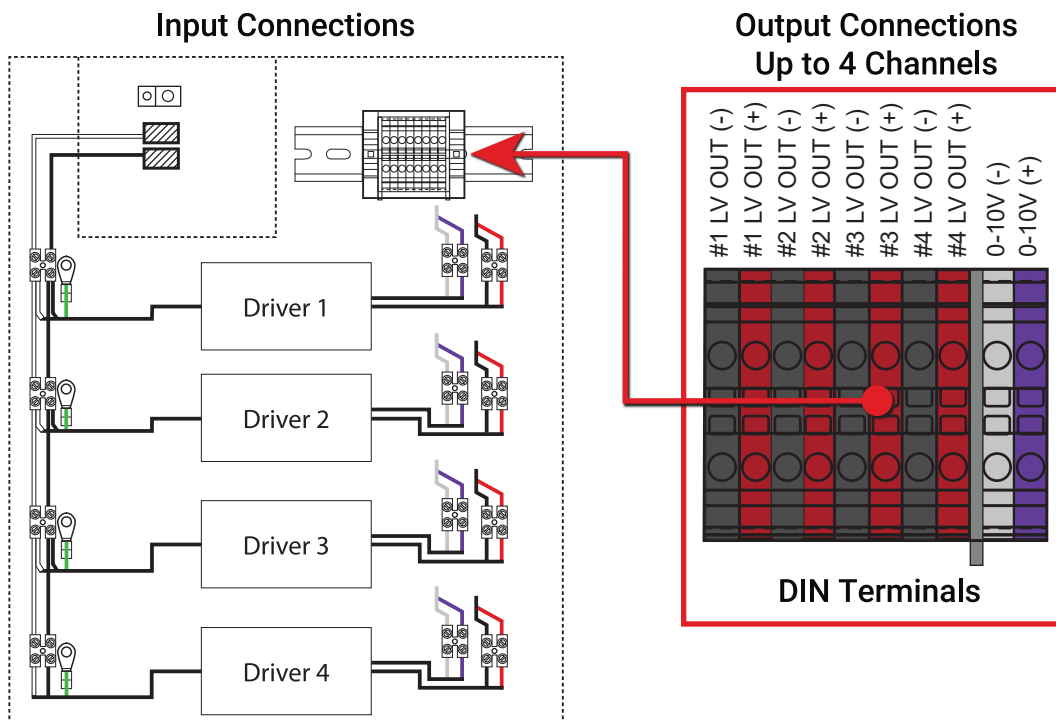


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Wiring Diagram

Up to 4 Channel Input/Output Connections



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Specification Sheet

Wiring Diagram

Up to 9 Channel Input/Output Connections

