

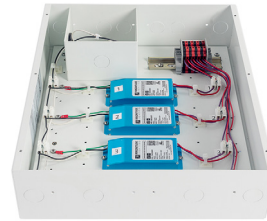
### Constant Voltage Electronic Phase Dimmable LED Driver | Multi-Channel

P/N: JB-

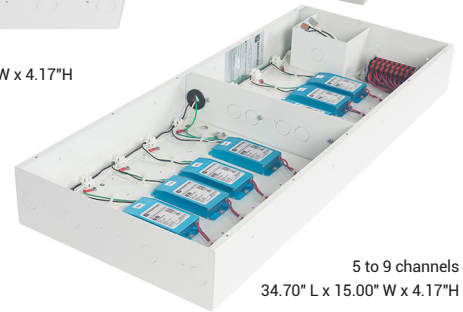
JB-SERIES contains 2-9 drivers and is wall or flush (recessed) mounted.

The JUNCTION BOX (JB) 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 plenum rated recessed mount, the high-quality metal junction box includes multiple 1 1/8" knock-outs and comes pre-wired for quick and easy installation. The JB-SERIES is constructed with a high voltage compartment and utilizes DIN rail terminal blocks to support independent channel outputs.

The JB | E-SERIES is available in 2 to 9 channel configurations. The E-SERIES is an electronic Class 2 dimmable LED driver that features auto reset, over current and short circuit protection as well as an efficiency over 90% resulting in low operating case temperature. The driver is phase dimmable down to 1% with leading edge TRIAC dimmers.



1 to 4 channel  
17.85" L x 15.00" W x 4.17"H



5 to 9 channels  
34.70" L x 15.00" W x 4.17"H

**Installation:** Integrated Junction Box with Multiple 1 1/8" Knock-Outs

**Driver Type:** Class 2 Multi-Channel

**Dimming:** Phase Dimmable Down to 1% with leading edge TRIAC Dimmer

**Input Voltage:** 120VAC, 50/60Hz

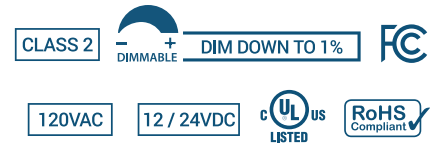
**Output Voltage:** 12VDC or 24VDC

**Environmental:** Dry

**Listing:** UL Listed

**Certifications:** UL2108 CSA C22.2 No. 250.0-08

**Warranty:** 5-Year Warranty



**E-SERIES is also available in:**

- E-SERIES UL LISTED
- E-SERIES UL RECOGNIZED
- EZJ-BOX

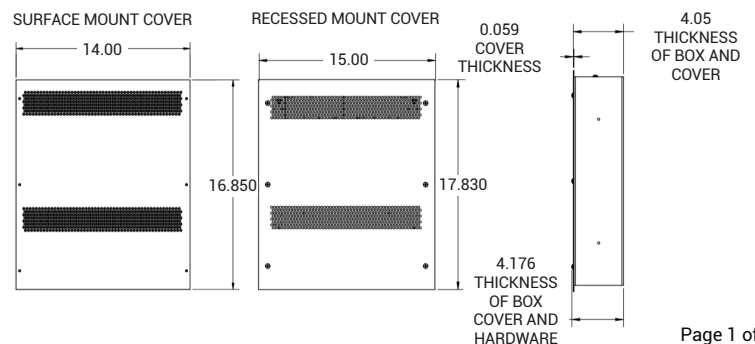
Refer to [Magnitudeinc.com](http://Magnitudeinc.com) for more details.

### Ordering Guide Example: JB-3-E96R24DC-RW

JB - E R DC -

TYPE	NUMBER OF CHANNELS	DRIVER SERIES	MAX POWER PER CHANNEL	DRIVER TYPE	OUTPUT	MOUNTING	FINISH
JB - JB-SERIES	2 - 2 channel	E - E-SERIES	60 - 60W	R - Recognized	12 - 12VDC	R - Recessed	W - White
	3 - 3 channel		96 - 96W		24 - 24VDC	S - Surface	
	4 - 4 channel						
	5 - 5 channel						
	6 - 6 channel						
	7 - 7 channel						
	8 - 8 channel						
	9 - 9 channel						

	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)



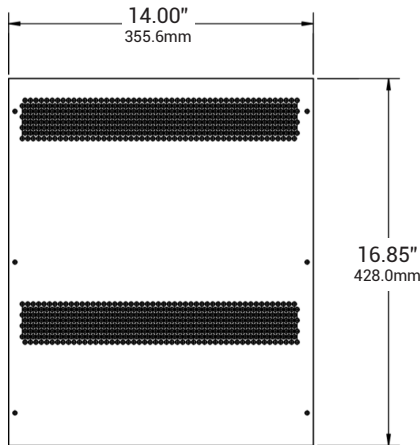
## Specifications

INPUT		
Input Voltage Range	120VAC ± 10%	
Input Frequency	50 / 60Hz	50 / 60Hz
Input Current	0.61A Per Driver Example: 2 drivers = 1.22A	0.85A Per Driver Example: 2 drivers = 1.7A
Efficiency	>90%	>90%
Power Factor	0.95	0.95
OUTPUT (PER CHANNEL)		
	2 to 9 Channel	2 to 9 Channel
Max Load	60W	96W
Output Voltage @ Max Load	12.0 VDC	24.0 VDC
Output Current @ Max Load	5A	4.16A
ENVIRONMENTAL		
Operating Temperature	-30°C - +50°C (-22°F - 122°F)	
DIMMING		
Minimum Dimming Level	1%	1%
PROTECTION		
Circuit Breaker	Short circuit & over-voltage auto-reset	
APPROVAL MARKINGS		
Certificates / Approval Signs	UL2108	UL2108

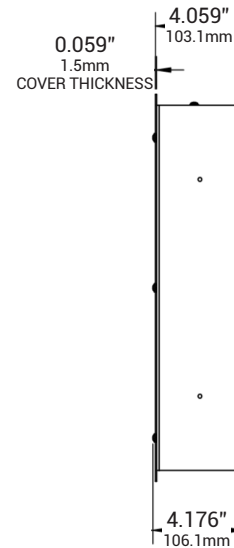
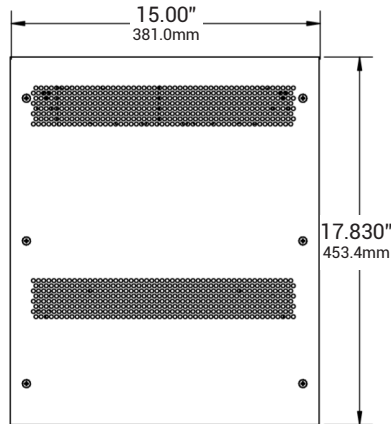
## Mechanical Diagram

### Up to 4 Channels

**SURFACE MOUNT COVER**

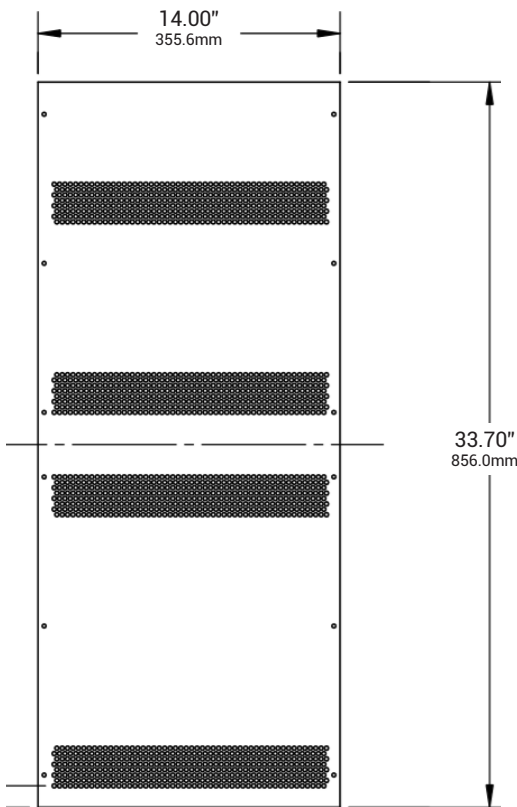


**RECESSED MOUNT COVER**

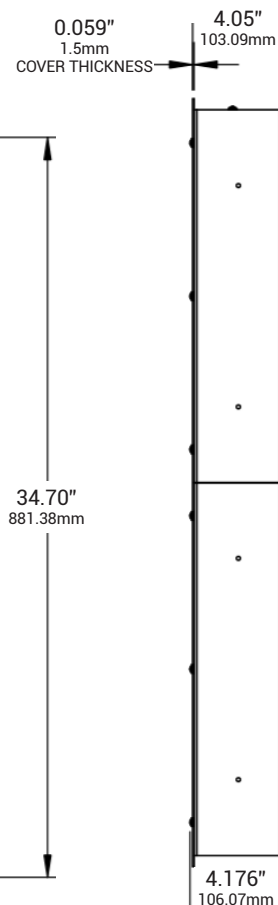
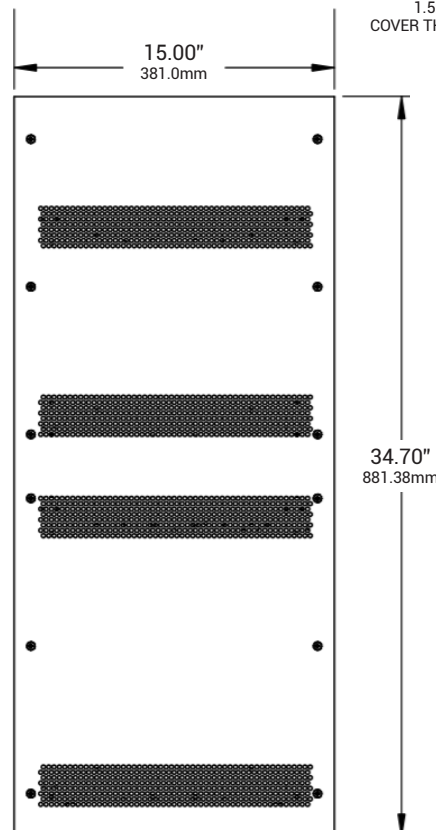


### 5 to 9 Channels

**SURFACE MOUNT COVER**



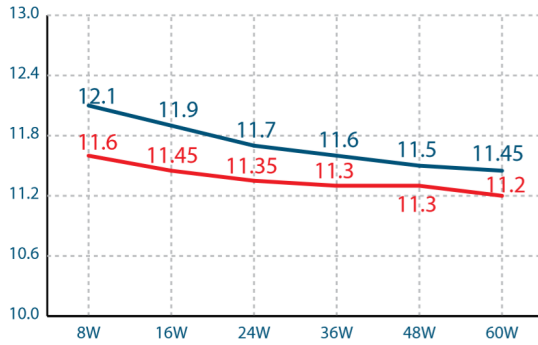
**RECESSED MOUNT COVER**



GALVANIZED STEEL WITH WHITE POWDER COAT

### Output vs Load Per Channel

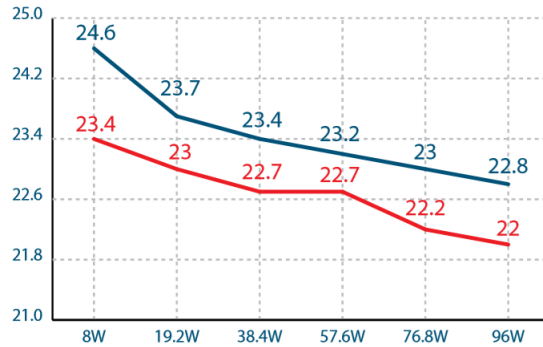
#### 60W (12VDC)



— Output Voltage vs. Load  
 — Output Voltage With a Typical TRIAC Dimmer (on Max)

### Output vs Load

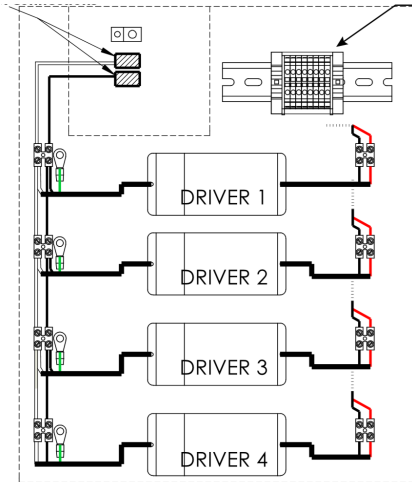
#### 96W (24VDC)



— Output Voltage vs. Load  
 — Output Voltage With a Typical TRIAC Dimmer (on Max)

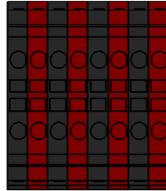
### Wiring Diagram - 12VDC

#### Input Connections



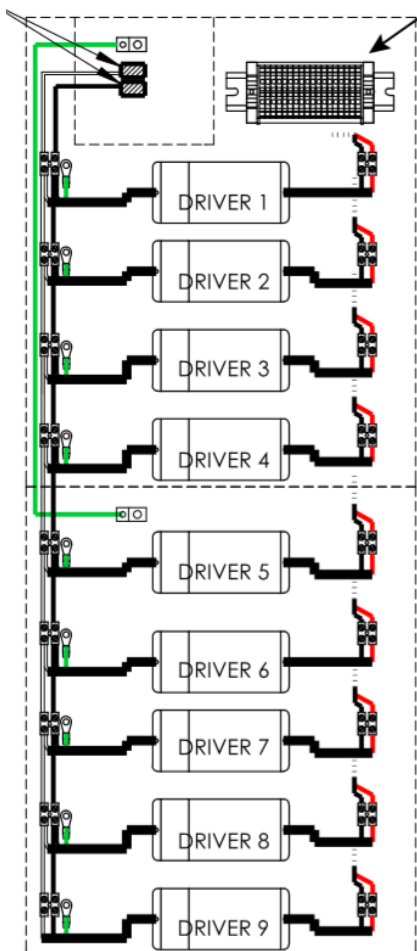
#### Output Connections Up to 4 Channels

# 1 LV OUT (-)  
# 1 LV OUT (+)  
# 2 LV OUT (-)  
# 2 LV OUT (+)  
# 3 LV OUT (-)  
# 3 LV OUT (+)  
# 4 LV OUT (-)  
# 4 LV OUT (+)



DIN TERMINALS

#### Input Connections



#### Output Connections 5 to 9 Channels

# 1 LV OUT (-)  
# 1 LV OUT (+)  
# 2 LV OUT (-)  
# 2 LV OUT (+)  
# 3 LV OUT (-)  
# 3 LV OUT (+)  
# 4 LV OUT (-)  
# 4 LV OUT (+)  
# 5 LV OUT (-)  
# 5 LV OUT (+)  
# 6 LV OUT (-)  
# 6 LV OUT (+)  
# 7 LV OUT (-)  
# 7 LV OUT (+)  
# 8 LV OUT (-)  
# 8 LV OUT (+)  
# 9 LV OUT (-)  
# 9 LV OUT (+)



DIN TERMINALS