

# MAGNITUDE CFLEX LINEAR

## Specification Sheet

### Programmable Constant Current 0-10V Dimmable Electronic LED Driver

The **MAGNITUDE CFLEX** LINEAR LED Driver provides the following benefits:

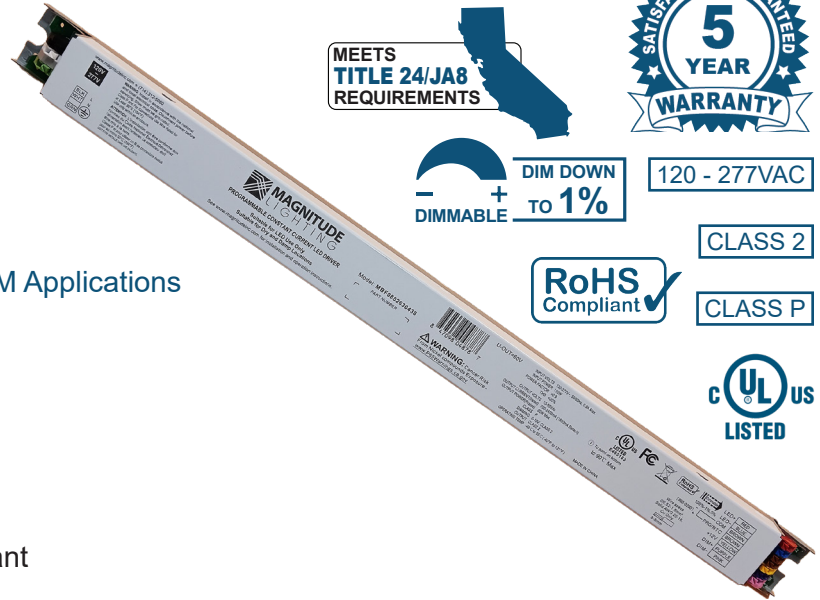
#### SKU Reduction for Driver Replacement and OEM Applications

- Wide voltage output range: 10V to 55V
- Wide current output range: 700 to 2400mA
- Replacement-ready Class P Listed

#### High Performance

- Dimmable down to 1%
- Dim-to-off function
- Quick power on (<0.5s) - CA Title 24 compliant

- Max Output Power:** 85W  
**Installation:** Terminal Blocks  
**Driver Type:** Class 2 single channel  
**Dimming:** 0-10V dimmable down to 1% with dim-to-off capability  
**Input Voltage:** 120VAC to 277VAC, 50/60Hz  
**Output Voltage:** 10V - 55V  
**Output Current:** 700 - 2400mA (1mA Step Programmable)  
**Environmental:** Dry and damp location  
**IP Rating:** IP20  
**Listing:** UL Listed, Class P, Class 2  
**Certifications:** UL8750  
**Warranty:** 5-Year



Part No.  
 CFLEX-TOOL-C1

### ORDERING GUIDE

Type	Max Power	Output Current	Case Style	Connector Style
CFLEX — CFLEX	85W — 85W	1800* — 700-2400mA	L — Linear	TB — Terminal Blocks

\*Default setting; specify current value for factory programming.

### DRIVER DIMENSIONS

<b>LENGTH</b>	16.69"	424mm
<b>WIDTH</b>	1.18"	30mm
<b>HEIGHT</b>	1.00"	26mm
<b>MOUNTING</b>	16.45"	418mm

### Fast and Easy 2-Wire Programming

- Compact programmer – No PC interface required
- Simple and intuitive operation
- Programmable Output Current (1mA Step)

## SPECIFICATIONS

### INPUT

Input Voltage Range	120 - 277VAC $\pm$ 10%
Input Frequency	50/60Hz
Input Current	0.9A Maximum
Inrush Current	84.7A @ 277VAC
Efficiency	> 89% @ maximum load
Power Factor	> 0.9 @ maximum load
Standby Power	< 2.3W

### OUTPUT

Maximum Output Power	85W
Output Voltage Range	10V - 55V
Output Current Range	700 - 2400mA (1mA step programmable)
Output Current Tolerance	+/- 5%
Output Current Ripple	<5% @ maximum load
Line Regulation	+/- 5%
Load Regulation	+/- 5%
Turn on Delay Time	<0.5 sec @ 120VAC
Auxillary Output	12V, 200mA maximum current

### ENVIRONMENTAL

Environmental Protection Rating	IP20
Surge Protection	2.5kV
Operating Ambient Temperature	-40°C to +55°C
Audible Noise	<24dB
Expected Lifetime	50k hours at 85°C case temperature
Remote Thermal Protection	Optional NTC Input

### DIMMING

Dimming Control	0-10V
Minimum Dimming Level	Dim to 1%
Dim-to-off	Default setting, use programming to disable

### PROTECTION

Over Current Protection	Yes, Current Limiting
Short Circuit Protection	Yes, Auto Recover
Over Voltage Protection	Yes, Auto Recover
Over Temperature Protection	Yes

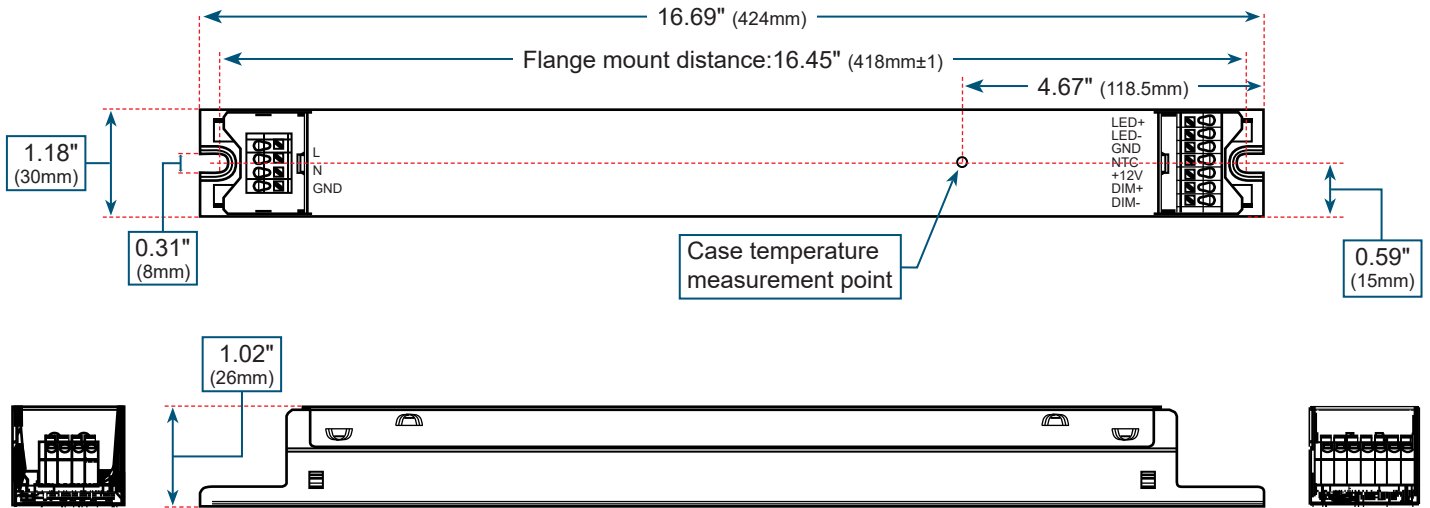
### MECHANICAL HOUSING

Housing Material	Steel
Housing Color	White
Input Connector Types	Terminal Blocks
Output Connector Types	Terminal Blocks
Mounting	Two half-hole flange mounts

### APPROVAL MARKINGS

Certificates and/or Approval Signs	UL 8750 Class 2, Class P
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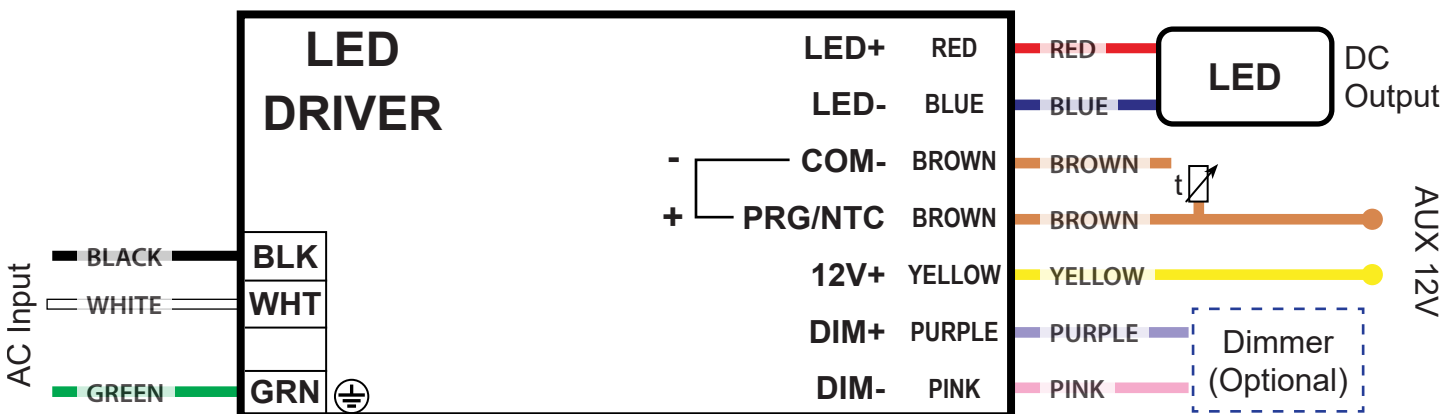
### MECHANICAL DIAGRAMS



ACTUAL DRIVER DIMENSIONS		
LENGTH	16.69"	424mm
WIDTH	1.18"	30mm
HEIGHT	1.00"	26mm
MOUNTING	16.45"	418mm

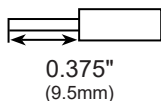
(Graphic not to scale.)

### WIRING DIAGRAM



Use 16-20 AWG solid copper wire stripped to 3/8" with driver push-in connectors.

Note: COM- is a shared negative (-) between NTC and 12V AUX output.



### PROGRAMMING THE MAGNITUDE CFLEX DRIVER

- The **MAGNITUDE CFLEX** standalone programming tool is used with **MAGNITUDE CFLEX** LED Drivers
- Output current is programmable in 1mA steps
- The **MAGNITUDE CFLEX** programming tool can quickly and easily configure the driver output current
- For details, see the programmer user manual, available on the **MAGNITUDE CFLEX** product page at [www.magnitudeinc.com](http://www.magnitudeinc.com)

