

MAGNITUDE CFLEX COMPACT

Specification Sheet

Programmable Constant Current 0-10V Dimmable Electronic LED Driver

The Magnitude CFlex Compact LED Driver provides the following benefits:

SKU Reduction for Driver Replacement and OEM Applications

- Wide voltage output range: 10V to 54V
- Wide current output range: 250 to 1400mA
- Replacement-ready Class P Listed
- Compact size

High Performance

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

Max Output Power: 54W

Installation: Flying Leads

Driver Type: Class 2 Single Channel

Dimming: 0-10V Dimmable Down to 1% with Dim-to-Off Capability

Input Voltage: Universal 120VAC to 277VAC, 50/60Hz

Output Voltage: 10V - 54VDC, 50VDC Max at 54W Output

Output Current: 250 - 1400mA (1mA Step Programmable)

Environmental: Dry and damp location

IP Rating: IP20

Listing: UL Listed, Class P, Class 2

Certifications: UL8750

Warranty: 5-Year



120 - 277VAC



CLASS 2

CLASS P



ORDERING GUIDE

Type	Max Power	Output Current	Case Style	Connector Style
CFLEX — CFLEX	54W — 54W	1400 — 250-1400mA	C — Compact	SL — Side Leads

DRIVER DIMENSIONS

LENGTH	5.43"	138mm
WIDTH	1.81"	46mm
HEIGHT	1.17"	30mm

Fast and Easy 2-Wire Programming

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

Part No. CFLEX-TOOL-C1



SPECIFICATIONS

INPUT

Input Voltage Range	120 - 277VAC \pm 10%
Input Frequency	50/60Hz
Efficiency	> 86% @ 120V @ 60W
Power Factor	> 0.9 @ 60W

OUTPUT

Maximum Output Power	54W @ <50VDC, 50W @ >50VDC
Output Voltage Range	10V - 54VDC
Output Current Range	250 - 1400mA (1mA step programmable)
Output Current Tolerance	\pm 5%
Output Current Ripple	< 30% @ 20-100% Max load
Line Regulation	\pm 2%
Load Regulation	\pm 2%
Turn on Delay Time	<0.5 sec @ 120VAC

ENVIRONMENTAL

Environmental Protection Rating	IP20
Surge Protection	2.5kV
Operating Ambient Temperature	-25°C to +40°C
Expected Lifetime	50k hours at 75°C

DIMMING

Dimming Control	0-10V
Minimum Dimming Level	Dim to 1%
Dim-to-off	Yes

PROTECTION

Over Current Protection	Yes, Current Limiting
Short Circuit Protection	Yes, Auto Restart
Over Voltage Protection	Yes, Hiccup Mode
Over Temperature Protection	Yes

MECHANICAL HOUSING

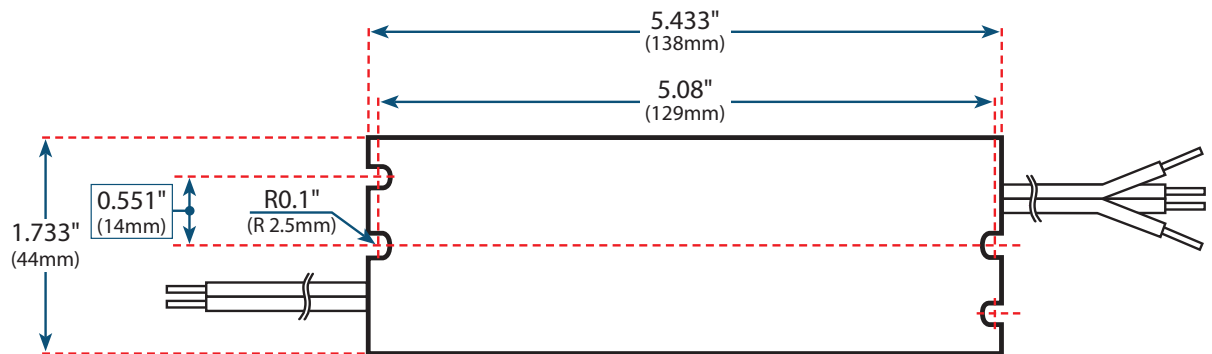
Housing Material	Steel
Housing Color	White
Input Connector Types	Side Exit Leads, 6" length
Output Connector Types	Side Exit Leads, 6" length
Mounting	Four half-hole flange mounts

APPROVAL MARKINGS

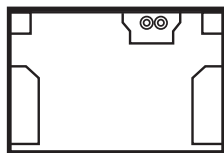
Certificates and/or Approval Signs	UL 8750 Class 2, Class P
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MECHANICAL DIAGRAMS

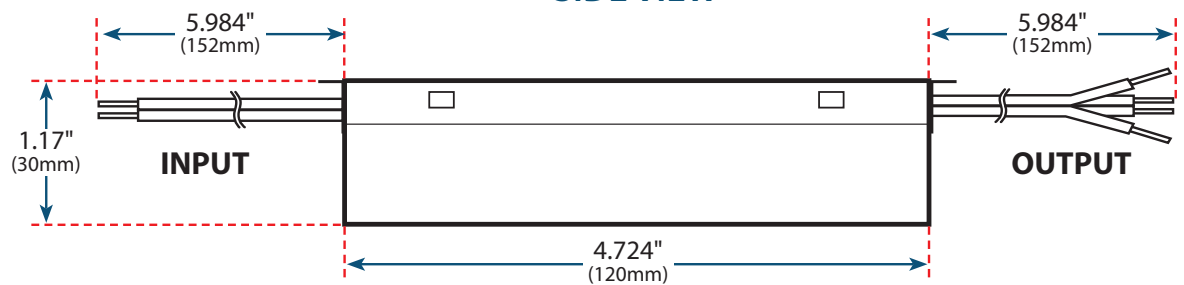
BOTTOM VIEW



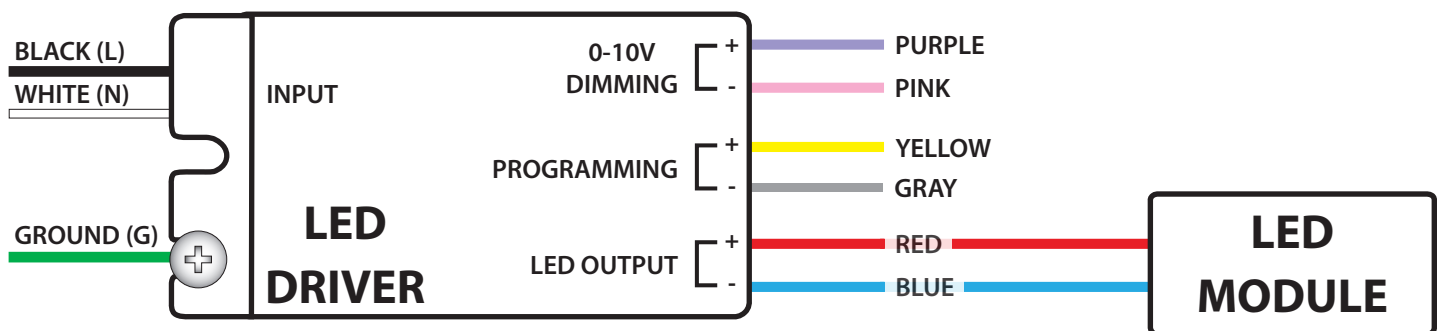
SIDE VIEW



SIDE VIEW



WIRING DIAGRAM



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

