MAGNITUDE LIGHTING

M-SERIES
MAGNETIC DIMMABLE CLASS 2 LED DRIVER

ETL LISTED C US
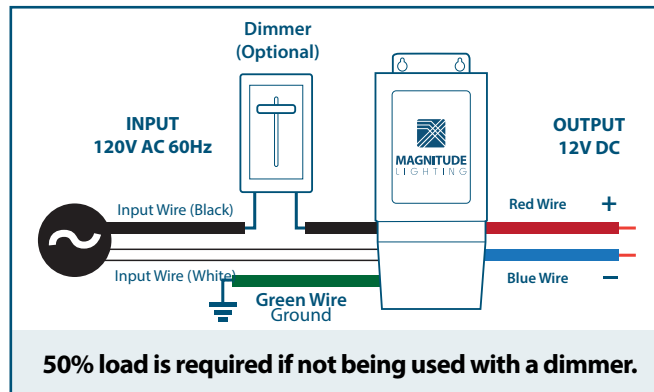DIMMABLE
CLASS 2
12V DC

P/N: M40L12DC-AR

Magnitude's M40L12DC-AR is the most compact LED driver on the market with a magnetic transformer core. It is equipped with two auto-reset breakers, one on the input and one on the output, which protect both the load and driver. The driver is encased in a coated metal box that includes 2 knock-outs, one on each side, to enable easy installation that complies with electrical code requirements.

QUICK SPECS

Input Voltage	Max Output Power	Output Voltage	Output Current	Efficiency @ Max Load	Power Factor @ Max. Load	Envir. Protection Rating	Weight
120VAC	40W	12VDC	3.96 A	> 79%	> 0.88	NEMA 3R	35oz

WIRING DIAGRAM

Dimmer (Optional)

INPUT 120V AC 60Hz

Input Wire (Black)

Input Wire (White)

Green Wire Ground

OUTPUT 12V DC

Red Wire +

Blue Wire −

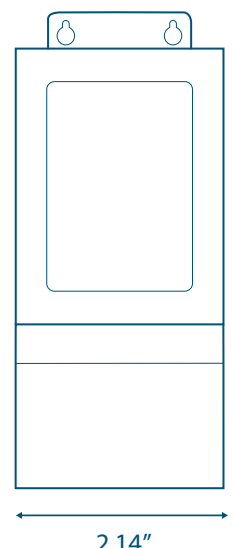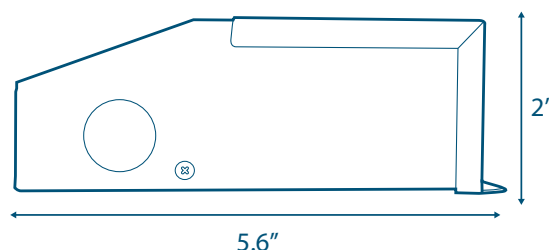**50% load is required if not being used with a dimmer.**

FEATURES

• Dimmable with any standard MLV/Incandescent TRIAC- (Leading edge) dimmer switch

• Dual protection - primary and secondary auto-reset circuit breakers

• Nema 3R - Outdoor Use

• Two knock-outs one on each side

• Class 2

• ETL Listed

• Certified to CSA Standard

ENCLOSURE DETAILS In. (mm)

Length	5.6 (142.2)
Width	2.14 (54.3)
Height	2 (50.8)

5.6"

2"

2.14"

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SPECIFICATIONS

Input	
Input Voltage	120VAC
Input Current @ Max Load	0.51 A
Power Factor	> 0.88
Efficiency	> 79%

Output	
Max Load	40W
Output Voltage	11.7 VDC @ Full Load
Output Current @ Max Load	3.96 A
Open Circuit Output Voltage	12.8 VDC
Coil Former	Double Section Bobbin

Envrionmental	
Operating Temperature	-30°c - 45°c (-22°F - 113°F)
Min Installation space between drivers	5" Inch
Thermal Class	B130°c

Protections	
Circuit Breaker	Primary and secondary auto-reset

Mechanical & Housing	
Leads Primary	PVC 600V #20
Leads Secondary	PVC 300V #16
Length	5.6" (142.2mm)
Width	2.14" (54.3mm)
Height	2" (50.8mm)
Weight	35oz (990grams)
Housing Material	Coated metal
Housing Color	Black
Junction Box	Yes
Mounting	Two Hole flange mounting

Approval Markings	
Certificates / Approval Signs	UL 8750, class 2

MAGNETIC DIMMABLE CLASS 2 LED DRIVER

MECHANICAL DIAGRAM

$\begin{bmatrix} 129 \end{bmatrix}$
5.08

$\begin{bmatrix} 69.9 \end{bmatrix}$
2.75

$\begin{bmatrix} 50.8 \end{bmatrix}$
2

$\begin{bmatrix} 32.8 \end{bmatrix}$
1.29

$\begin{bmatrix} 20.6 \end{bmatrix}$
.81

$\begin{bmatrix} 37 \end{bmatrix}$
1.46

$\begin{bmatrix} 22.1 \end{bmatrix}$
$\varnothing$ .87

$\begin{bmatrix} 3.1 \end{bmatrix}$
R.12

$\begin{bmatrix} 8 \end{bmatrix}$
.31

$\begin{bmatrix} 35.4 \end{bmatrix}$
1.39

$\begin{bmatrix} 54.4 \end{bmatrix}$
2.14

$\begin{bmatrix} 142.3 \end{bmatrix}$
5.60

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Chart data (Output Voltage vs. Load, blue line):
No Load	20%	40%	60%	80%	100%
12.8	12.5	12.3	12.1	11.9	11.7

Chart data (Output Voltage With a Typical Dimmer, red line):
No Load	20%	40%	60%	80%	100%
11.7	11.4	11.2	11.0	10.8	10.6

— Output Voltage vs. Load

— Output Voltage With a Typical Dimmer

The specifications are subject to change without notice   rev1.7

WE **DRIVE** LIGHT