

REVISIONS		
REV	DESCRIPTION	DATE
D1	CHANGED PER ECN 20-006	10/06/2020
D0	CHANGED PER ECN 18-007	01/24/2019
C0	CHANGED PER ECN 18-007	09/10/2018
B0	CHANGED PER ECN 18-004	06/12/2018
A0	RELEASE TO PRODUCTION	02/08/2018

SAFETY STANDARDS COMPLIANCE:
 EN61347-1, EN61347-2-13
 ANSI C82.77-10-2014
 UL1310, CLASS 2
 UL8750

SAFETY CERTIFICATIONS
 UL, cUL E357847
 LVD pending
 EMC dir pending

EMI STANDARDS:
 FCC 47 CFR PART 15 CLASS B
 EN55015, EN61000, EN61547

SAFETY

INPUT RANGE:
 110 - 277 VAC,
 1.10-0.43 A @ FULL LOAD.

THD: <20%.

FREQUENCY: 50 / 60 Hz.
EFFICIENCY: 80 % Typ.

POWER FACTOR: >0.9

PEAK INRUSH:
 9A, 5.8µsec, 4.18x10⁻⁴ A²sec @120Vac
 27A, 5.6µsec, 40.0x10⁻⁴ A²sec @277Vac

LEAKAGE CURRENT:
 < 0.5mA @277VAC
Surge Immunity: 4KVac

INPUT

LOAD CAPACITY: 100 WATTS
OUTPUT MIN MAX LOAD REG MAX. RIP
 +24V 2.7 AMPS 4.2 AMPS +5%/±5% 120mV p/p

OUTPUT

COOLING: CONVECTION

NOISE LEVEL: 24 dB @ 1ft.

RELIABILITY (MTBF): (MIL-HDBK-217E)
 50,000 HRS. @ 25 DEG. C @ FULL LOAD

ENVIRONMENTAL CONDITIONS:
 LOWEST OPERATING TEMPERATURE: -40°C: Tc=90°C
 RELATIVE HUMIDITY: 5 ~ 95%
 FOR DRY AND DAMP LOCATIONS

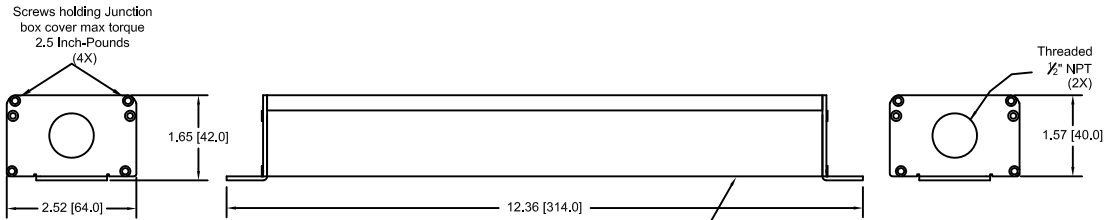
CONNECTOR:
 N/A

MISCELLANEOUS

PF, THD AND EFFICIENCY CALCULATIONS ARE BASED ON THE LOADING OF THE DRIVER TO MINIMUM 65% AND MAXIMUM 100% OF 100W

Notes:

- 1.- 5 yrs warr provided Tc point remains below 75°C
- 2.- Transformer - Class 130 (B), Insulation system
- 3.- Add installation instruction sheet (P/N 77-0130) inside of each individual box
- 4.- Dimming: 0-10V Dimming, driver will not dim to off
 Minimum dimming to 1% (the actual dimming level vary based on dimmer used)
- 5.- Driver UL Listed, Type HL, Class P
- 6.- Protection; OTP, OCP, SCP, OVP, AUTO-RECOVERY
- 7.- Drivers comply with UL8750 Supplement SF



MAGTECH Magtech Industries Corp
 www.magtechind.com
LED Driver, Isolated Class 2 output
 Constant Voltage, 0-10V Dimmable

MODEL: Q2-U24-LP
 INPUT: 110-277VAC, 1.10-0.43A, 50/60Hz
 DC OUTPUT: 24V / 4.2A, 100W max

P/N: 20-5687 REV: D
 Made in China
 Suitable for Dry and Damp Locations Only 0418000001

UL LISTED E357847 Type HL Class P Ta: 80°C Tc: 90°C

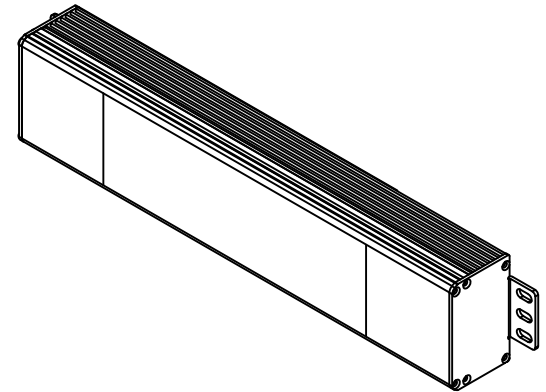
DC OUTPUT
 LED+(RED)
 LED-(BLACK)

Dimming
 DIM+(PURPLE)
 DIM-(GRAY)

Notice: These control wires are not isolated from the Power Secondary leads.



CAUTION Label
 12*20mm



CON	PIN	COLOR	OUTPUT	AWG	LENGTH
AC IN	—	GRN/YLW	FG	18	6.5 [165] ±0.5 [±13]
	—	BLACK	LINE	18	
	—	WHITE	NEUTRAL	18	
DC OUT	—	RED	+V	18	
	—	BLACK	GND	18	
DIM CNTL	—	PURPLE	DIM+	20	
	—	GRAY	DIM-	20	

MANUFACTURED BY:

THIS ITEM IS THE PROPERTY OF MAGTECH INDUSTRIES AND CONTAINS PROPRIETARY CONFIDENTIAL AND TRADE SECRET INFORMATION. THE INFORMATION CONTAINED HEREIN MUST NOT BE USED, DISCLOSED OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT FROM MAGTECH INC.

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS IN INCHES (MM)
 TOLERANCES:
 .X DECIMALS ± .05 (1.3)
 .XX DECIMALS ± .02 (0.5)
 .XXX DECIMALS ± .005 (0.13)
 ANGLES ± 1°
 FRACTIONS ± 1/16

MAGTECH

TITLE: Q2-U24-LP, 110-277VAC, 24V, 4.2A, DIM

DO NOT SCALE THIS DRAWING	APPROVAL DATE: 04/10/2019	MODEL NO. Q2-U24-LP	DWG NO. M20-5687	REV. D1	SH OF 1 1
INTERPRET DRAWING PER ANSI Y14.5M	EFFECTIVE DATE: 02/08/2018				