

20-5156 B

REVISIONS		
REV	DESCRIPTION	DATE
B0	CHANGED PER ES, ECN2020022001	02/24/2020
A0	RELEASE TO PRODUCTION	09/26/2018

SAFETY STANDARDS COMPLIANCE:
 UL8750
 UL1310
 ANSI C82.77-10-2014
 LVD EN61347-2-13
EMI STANDARDS:
 FCC 47 CFR PART 15 CLASS B
 CE EN55015, EN61547
 EN61000-4-2,3,4,5,6,8,11

SAFETY CERTIFICATIONS
 UL, cUL E357847
 CE LVD CA17090057-S-000
 EMC CA17090058-E-001
 FCC PENDING

SAFETY

INPUT RANGE:
 120-277 VAC, 460-180mA @ FULL LOAD.
FREQUENCY: 50/60 Hz.
EFFICIENCY: 87 % Typ.
PEAK INRUSH:
 3A, 100µsec, 4.41x10⁻⁴ A²sec @120Vac
 6A, 140µsec, 4.45x10⁻³ A²sec @277Vac

DIMMING:
 AC Phase - Leading & Trailing edge
 THD: <20%
POWER FACTOR: 0.97
LEAKAGE CURRENT:
 < 0.01mA @277VAC
 Surge Immunity: 1K Vac

INPUT

STANDARD LOAD RANGE (For AC-Dimming)			
OUTPUT	MIN	MAX	LOAD REG
1050mA	27V	38V	±5%

LOAD RANGE: (For 0-10V Dimming)			
OUTPUT	MIN	MAX	
1050mA	29V	38V	

OUTPUT

COOLING: CONVECTION
NOISE LEVEL: N/A
RELIABILITY (MTBF):
 100,000 HRS. @ 25 DEG. C @ FULL LOAD

PROTECTION:
 OCP,SCP,OLP
 AUTO-RECOVERY

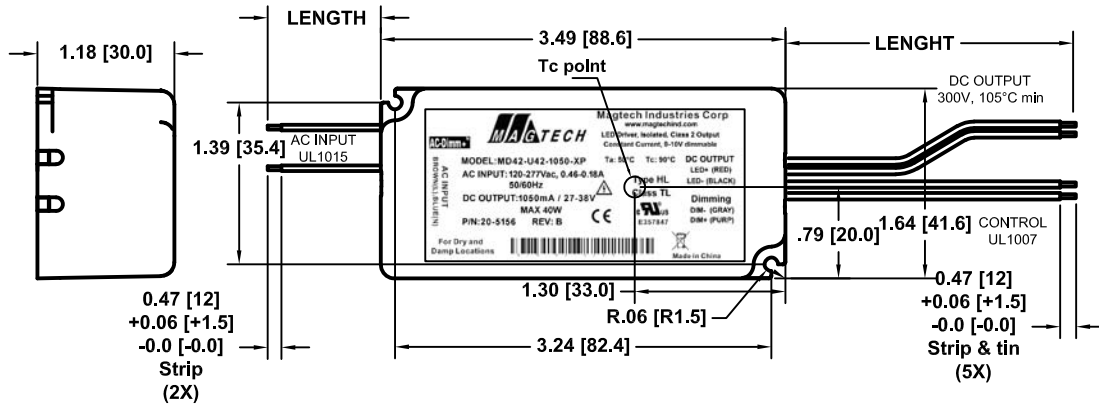
MISCELLANEOUS

ENVIRONMENTAL CONDITIONS:
 LOWEST OPERATING TEMPERATURE: -40°C: Tc=80°C
 RELATIVE HUMIDITY: 5 - 95%
 LOCATION: For Dry and Damp Use Only

CONNECTOR:
 N/A

PF, THD AND EFFICIENCY CALCULATIONS ARE BASED ON THE LOADING OF THE DRIVER TO MINIMUM 65% AND MAXIMUM 100% OF 40W

- Notes:
- 1.- 5 yrs warr provided tc point remains below 75°C
 - 2.- Bar code defined by drawing 77-0120.
 - 3.- Transformer - Class 130 (B), Insulation system
 - 4.- Dimming: 0-10V Dimming, driver will not dim to off.
 - 5.- Start up time is <0.75 sec
 - 6.- UL Type HL & Class TL



Magtech Industries Corp
 www.magtechind.com
 LED Driver, Isolated, Class 2 Output
 Constant Current, 0-10V dimmable

AC-Dimm+

MODEL: MD42-U42-1050-XP Ta: 50°C Tc: 90°C DC OUTPUT
 AC INPUT: 120-277Vac, 0.46-0.18A 50/60Hz Type HL LED+ (RED)
 DC OUTPUT: 1050mA / 27-38V Class TL LED- (BLACK)
 MAX 40W Dimming
 P/N: 20-5156 REV: B E357847 DIM- (GRAY)
 DIM+ (PURP)

For Dry and Damp Locations

Made in China

CON	PIN	COLOR	OUTPUT	AWG	LENGTH
AC	-	BROWN	LINE	18	±0.5 [±13]
IN	-	BLUE	NEUTRAL	18	
DC	-	RED	+V	20	6.5 [165]
OUT	-	BLACK	GND	20	
DIM	-	PURPLE	DIM+	20	
CNTL	-	GRAY	DIM-	20	

MANUFACTURED BY: ES

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UNLESS OTHERWISE SPECIFIED Q.C:

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

DO NOT SCALE THIS DRAWING

INTERPRET DRAWING PER ANSI Y14.5M

APPROVAL DATE: 09/06/2018

EFFECTIVE DATE: 09/06/2018

MODEL NO. MD42-U42-1050-XP

DWG NO. 20-5156

REV. B0

SH OF 1 1

MAGTECH

TITLE: MD42-U42-1050-XP, CN-0329, 120-277VAC, 1050mA, 27-38V