

REVISIONS		
REV	DESCRIPTION	DATE
A0	RELEASE TO PRODUCTION	08/08/2018

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
 LVD EFSN14081229E-L
 EMC dir EFSN14081229E-E
 FCC pending

SAFETY

INPUT RANGE:
 110-277 VAC, 460-160mA
 @ FULL LOAD.

DIMMING:
 AC Phase - Trailing edge only

INPUT

FREQUENCY: 50/60 Hz.
EFFICIENCY: 87 % Typ.

POWER FACTOR: >0.98
LEAKAGE CURRENT:

PEAK INRUSH:
 27 AMPS @ 110V AC

< 0.01mA @277VAC
 Surge Immunity: 2.5 KVac

STANDARD LOAD RANGE:

OUTPUT	MIN	MAX	LOAD REG	MAX. RIP
830mA	27V	42V	±5%	2.4%

OUTPUT

COOLING: CONVECTION

PROTECTION:
 OCP,SCP,OPP
 AUTO-RECOVERY

MISCELLANEOUS

NOISE LEVEL: <24 dB (Doc 149600329)

RELIABILITY (MTBF): (MIL-HDBK-217E)
 100,000 HRS. @ 25 DEG. C @ FULL LOAD

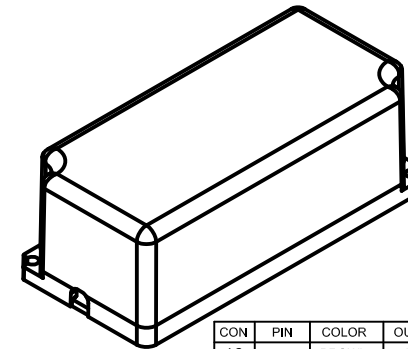
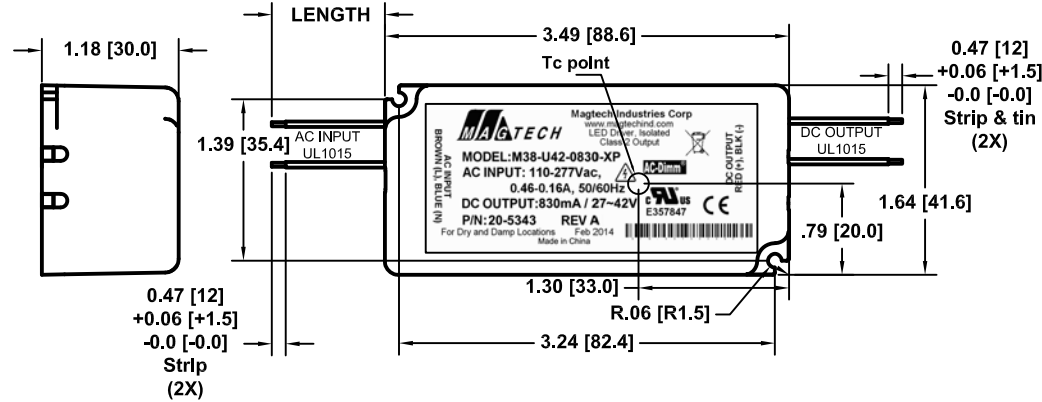
ENVIRONMENTAL CONDITIONS:
 LOWEST OPERATING TEMPERATURE: -30 Tc= 80°C
 RELATIVE HUMIDITY: 5 - 95%
 LOCATION: For Dry and Damp Use Only

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



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

MAGTECH Magtech Industries Corp
 www.magtechind.com
 LED Driver, Isolated
 Class 2 Output

MODEL: M38-U42-0830-XP
AC INPUT: 110-277Vac,
 0.46-0.16A, 50/60Hz
DC OUTPUT: 830mA / 27-42V
P/N: 20-5343 REV A
 For Dry and Damp Locations Feb 2014
 Made in China

AC INPUT BROWN (L), BLUE (N)
 DC OUTPUT RED (+), BLK (-)

MANUFACTURED BY: ES

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UNLESS OTHERWISE SPECIFIED		QC:			
DIMENSIONS IN INCHES (MM)					
TOLERANCES					
.X DECIMALS ± .05 (1.3)					
.XX DECIMALS ± .02 (0.5)					
.XXX DECIMALS ± .005 (0.13)		TITLE: M38-U42-0830-XP, 110~277VAC, 830mA, 27~42V			
ANGLES 1°		APPROVAL DATE: 08/15/2018		MODEL NO. M38-U42-0830-XP	
FRACTIONS 1/16		EFFECTIVE DATE: 08/08/2018		DWG NO. M20-5343	
DO NOT SCALE THIS DRAWING		INTERPRET DRAWING PER ANSI Y14.5M		REV. A0 SH OF 1 1	