

REVISIONS		
REV	DESCRIPTION	DATE
A1	CHANGED PER ECN 22-004	10/11/2023
A0	RELEASE TO PRODUCTION	03/26/2021

SAFETY STANDARDS COMPLIANCE:
 UL8750
 UL1310

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 A001E121227005S
 EMC A001E121227005E
 FCC A001E130624018E

INPUT RANGE:
 110-277 VAC, 230-110mA
 @ FULL LOAD.

FREQUENCY: 60 Hz.
EFFICIENCY: 87 % Typ.

PEAK INRUSH:
 39 AMPS @ 110V AC
 42 AMPS @ 230V AC

DIMMING:
 AC Phase - Trailing edge only

POWER FACTOR: 0.97
LEAKAGE CURRENT:
 < 0.01mA @120VAC
 Surge Immunity: 2.5K Vac

STANDARD LOAD RANGE:				
OUTPUT	MIN	MAX	LOAD REG	MAX. RIP
300mA	26V	42V	±5%	2.4%

COOLING: CONVECTION
NOISE LEVEL: <24 dB (Doc A001E130422009K)

PROTECTION:
 OCP,SCP,OVP
 AUTO-RECOVERY

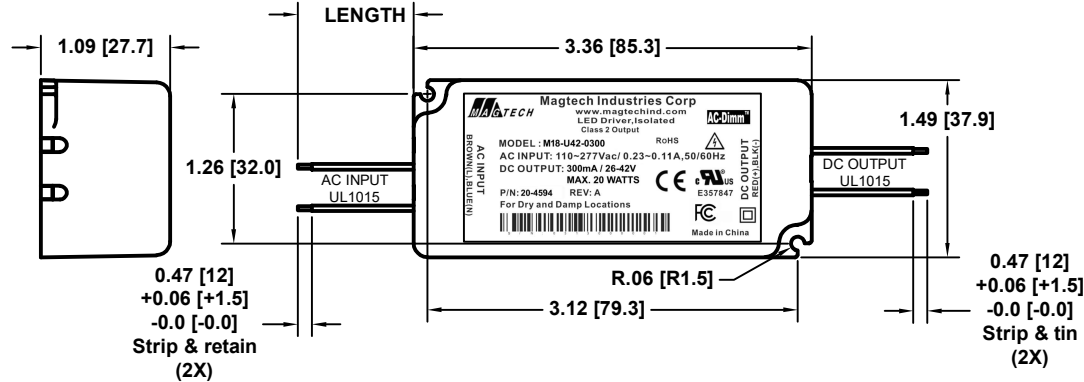
RELIABILITY (MTBF): (MIL-HDBK-217E)
 100,000 HRS. @ 25 DEG. C @ FULL LOAD

ENVIRONMENTAL CONDITIONS:
 LOWEST OPERATING TEMPERATURE: -40°C: Tc=90°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 20W

- 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.- UL Type TL and Type HL



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

AC-Dimm™

MODEL : M18-U42-0300 RoHS

AC INPUT: 110~277Vac/ 0.23~0.11A, 50/60Hz

DC OUTPUT: 300mA / 26-42V
 MAX. 20 WATTS

P/N: 20-4594 REV: A
 For Dry and Damp Locations

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

Made in China

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

MANUFACTURED BY: ES

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UNLESS OTHERWISE SPECIFIED

QC:

MAGTECH

TITLE: M18-U42-0300, 110-277VAC, 300mA, 26-42V

DO NOT SCALE THIS DRAWING
 INTERPRET DRAWING PER ANSI Y14.5M

APPROVAL DATE: 03/26/2021
 EFFECTIVE DATE: 03/26/2021

MODEL NO. M18-U42-0300

DWG NO. M20-4594

REV. A1

SH OF 1 1

FORM PF-004