

REVISIONS		
REV	DESCRIPTION	DATE
A0	RELEASE TO PRODUCTION	07/16/2021

**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

SAFETY

**INPUT RANGE:**  
110~277 VAC, 230~90mA  
@ 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

INPUT

STANDARD LOAD RANGE:				
OUTPUT	MIN	MAX	LOAD REG	MAX. RIP
500mA	15V	24V	±5%	2.4%

OUTPUT

**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

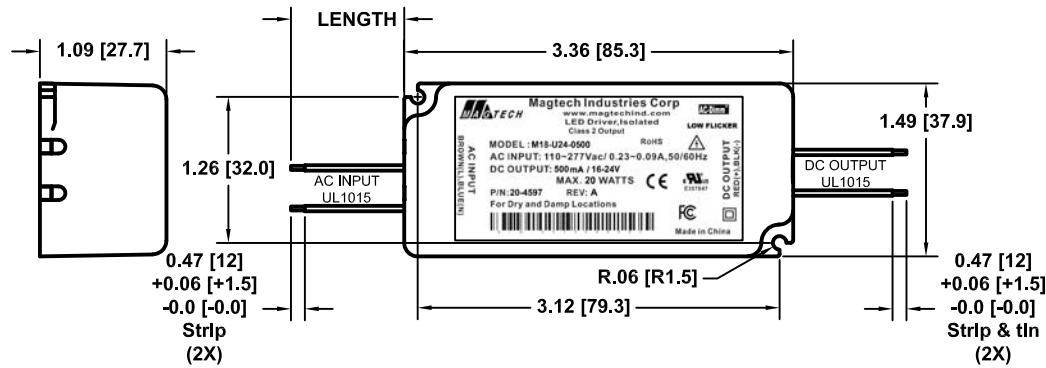
MISCELLANEOUS

**ENVIRONMENTAL CONDITIONS:**  
OPERATING TEMPERATURE: -20 ~ 50°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 to point remains below 75°C
  - 2.- Bar code defined by drawing 77-0121.
  - 3.- Transformer - Class 130 (B), Insulation system
  - 4.- Flicker: <30% at frequencies below 200 Hz (California Title 24)



M18 original case dimensions above



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

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)					
ANGLES± 1°		TITLE: M18-U24-0500, 110-277VAC, 500mA, 15-24V, LOW FLK			
FRACTIONS± 1/16					
DO NOT SCALE THIS DRAWING	APPROVAL DATE: 07/16/2021	MODEL NO.	DWG NO.	REV. A0	SH OF
INTERPRET DRAWING PER ANSI Y14.5M	EFFECTIVE DATE: 07/16/2021	M18-U24-0500	M20-4597		1 1