

REVISIONS		
REV	DESCRIPTION	DATE
A0	RELEASE TO PRODUCTION	09/4/2019

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 E357847
 cUL E357847
 LVD
 16KWS070511D
 EMC DIRECTIVE
 17KWE014906E

INPUT RANGE:
 110 - 277 VAC, 0.88 - 0.32 A @ FULL LOAD.

FREQUENCY: 50 / 60 Hz. POWER FACTOR: >0.9
 EFFICIENCY: 85 % Typ. LEAKAGE CURRENT:
 PEAK INRUSH: 0.66mA Max.
 8 AMPS @ 115V AC
 16 AMPS @ 230V AC

LOAD CAPACITY:	70 WATTS
OUTPUT MIN	MAX
1600mA	27 Volts
	42 Volts
LOAD REG	MAX. RIP
±5%	5%

COOLING: CONVECTION PROTECTION:
 NOISE LEVEL: 0 dB OCP,SCP,OLP,OVP
 RELIABILITY (MTBF): (MIL-HDBK-217E) AUTO-RECOVERY
 100,000 HRS. @ 25 °C @ FULL LOAD

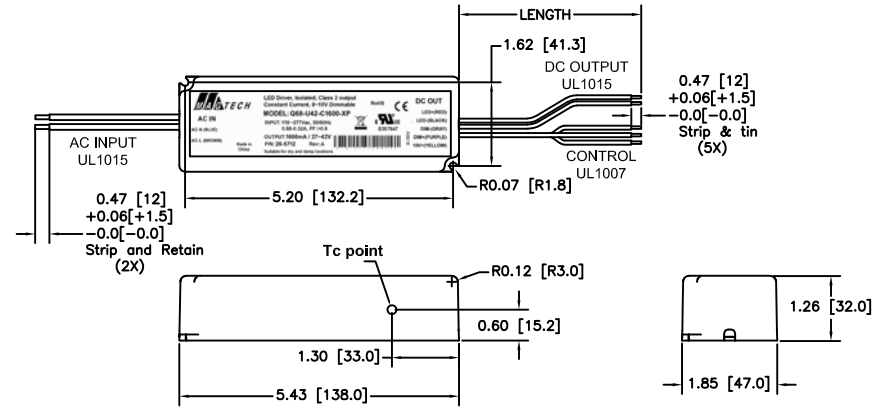
ENVIRONMENTAL CONDITIONS:
 LOWEST OPERATING TEMPERATURE: -40°C TC=85°C
 RELATIVE HUMIDITY: 5 ~ 95% (NON CONDENSING)
 LOCATION: DRY AND DAMP USE ONLY

CONNECTOR:
 N/A

PF, THD AND EFFICIENCY CALCULATIONS ARE BASED ON THE LOADING OF THE DRIVER TO MINIMUM 65% AND MAXIMUM 100% OF 70W

- 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 dim to on

SAFETY INPUT OUTPUT MISCELLANEOUS



LED Driver, Isolated, Class 2 output
 Constant Current, 0-10V Dimmable

MODEL: Q68-U42-C1600-XP

INPUT: 110 ~277Vac, 50/60Hz
 0.88-0.32A, PF:>0.9

OUTPUT: 1600mA / 27-42V

P/N: 20-5712 Rev: A

Suitable for dry and damp locations

AC IN

AC-N (BLUE)

AC-L (BROWN)

Made in China

DC OUT

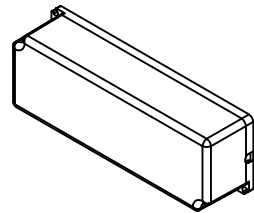
LED+(RED)

LED-(BLACK)

DIM-(GRAY)

DIM+(PURPLE)

10V+(YELLOW)



CON	PIN	COLOR	OUTPUT	AWG	LENGTH
AC IN	--	BROWN	LINE	18	6.5 [165]
DC OUT	--	BLUE	NEUTRAL	18	
	--	RED	+V	18	±0.5 [±13]
	--	BLACK	GND	18	
DIM CNTL	--	YELLOW	+10V OUT	20	
	--	PURPLE	DIM+	20	
	--	GRAY	DIM-	20	

MANUFACTURED BY: ES

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UNLESS OTHERWISE SPECIFIED

QC:

TOLERANCES:

.X DECIMALS± .05 (1.3)

.XX DECIMALS± .02 (0.5)

.XXX DECIMALS± .005 (0.13)

ANGLES± 1°

FRACTIONS± 1/16

TITLE:
 Q68-U42-C1600-XP, 110-277VAC, 1600mA, 27-42V, DIM-ON

DO NOT SCALE THIS DRAWING	APPROVAL DATE: 09/04/2019	MODEL NO.	DWG NO.	REV. A0	SH OF
INTERPRET DRAWING PER ANSI Y14.5M	EFFECTIVE DATE: 09/04/2019	Q68-U42-C1600-XP	M20-5712		1 1