

REVISIONS		
REV	DESCRIPTION	DATE
A0	RELEASE TO PRODUCTION	11/04/2016

**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  
N/A  
EMC DIRECTIVE  
N/A

**INPUT RANGE:**  
100 - 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
1200mA	30 Volts
	48 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

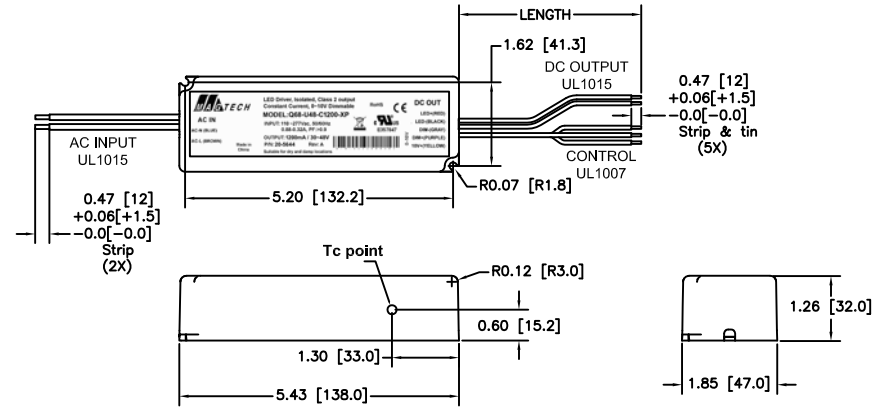
ENVIRONMENTAL CONDITIONS:  
OPERATING TEMPERATURE: -20 ~ 50°C  
RELATIVE HUMIDITY: 5 ~ 95% (NON CONDENSING)  
LOCATION: DRY AND DAMP USE ONLY

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:
- 5 yrs warr provided tc point remains below 75°C
  - Bar code defined by drawing 77-0120.
  - Transformer - Class 130 (B), Insulation system
  - Dimming: 0-10V Dimming

SAFETY INPUT OUTPUT MISCELLANEOUS



**LED Driver, Isolated, Class 2 output**  
Constant Current, 0-10V Dimmable  
MODEL: Q68-U48-C1200-XP

RoHS **DC OUT**

AC IN LED+(RED)  
AC-N (BLUE) LED-(BLACK)  
AC-L (BROWN) DIM-(GRAY)

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

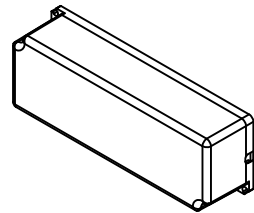
OUTPUT: 1200mA / 30-48V  
DIM+(PURPLE)  
10V+(YELLOW)

P/N: 20-5644 Rev: A

Made in China

Suitable for dry and damp locations

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



**MANUFACTURED BY: ES**

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QC:

**T I T L E:**  
Q68-U48-C1200-XP, 110~277VAC, 1200mA, 30~48V

DO NOT SCALE THIS DRAWING	APPROVAL DATE: 11/11/2016	MODEL NO.	DWG NO.	REV. A0	SH OF
INTERPRET DRAWING PER ANSI Y14.5M	EFFECTIVE DATE: 11/04/2016	Q68-U48-C1200-XP	M20-5644		1 1

FORM PF-004