

REVISIONS		
REV	DESCRIPTION	DATE
C1	CHANGED PER ECN NECN1208-00001	11/01/2024
C0	CHANGED PER ECN 24-001, 24-002, 24-008 & 24-010	06/24/2024
B0	CHANGE PER ECN 21-001	12/15/2021
A1	CHANGE DIM WIRES GAUGE TO 22AWG	10/20/2020
A0	RELEASE TO PRODUCTION	06/25/2020

**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  
LVD 23AS100743S347A002  
EMC E04A23100743E00101  
FCC 24AE040887F001

**INPUT RANGE:**  
100~277 VAC, 0.5-0.18A @ FULL LOAD.

**FREQUENCY:** 50/60 Hz.

**EFFICIENCY:** 87 % Typ.

**PEAK INRUSH (NEMA 410):**  
I<sub>t</sub>=0.00053 A sec @110Vac  
I<sub>t</sub>=0.007526 A sec @277Vac

**THD<20%**

**POWER FACTOR:** 0.97

**LEAKAGE CURRENT:**  
< 0.01mA @277VAC  
Surge Immunity: 2.5K Vac

Absolute maximum rating: 40W

OUT #	TYPE	OUTPUT	MIN	MAX	LOAD REG	MAX RIP
1	CC	850mA	24V	48V	±5%	10%

Note for CC output:  
Actual output current depends on the selector switch

**COOLING:** CONVECTION

**NOISE LEVEL:** N/A

**RELIABILITY (MTBF):**  
100,000 HRS. @ 25 DEG. C @ FULL LOAD

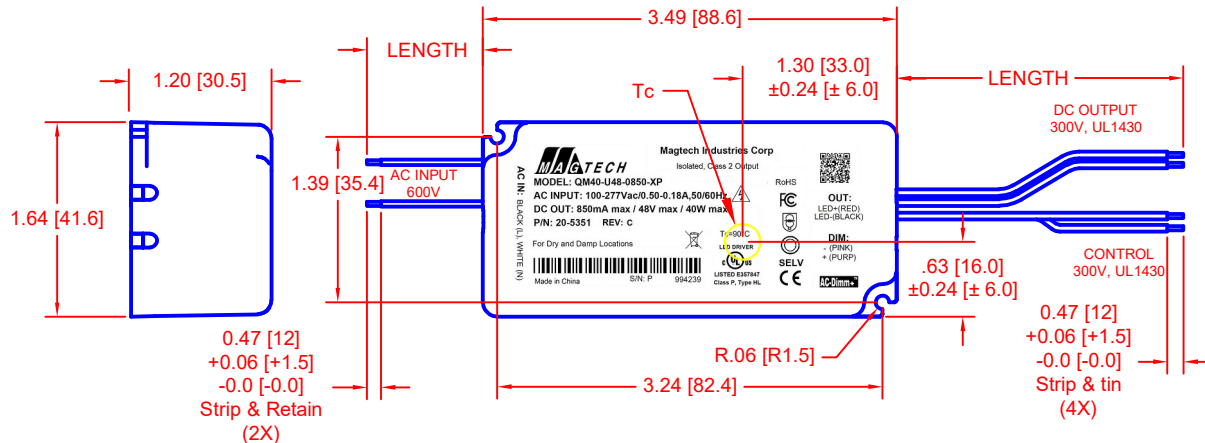
**ENVIRONMENTAL CONDITIONS:**  
LOWEST OPERATING TEMPERATURE: -40°C: T<sub>c</sub>=90°C  
RELATIVE HUMIDITY: 5 ~ 95%  
LOCATION: For Dry and Damp Use Only

**CONNECTOR:**  
N/A

**PROTECTION:**  
SCP, OLP, OVP  
AUTO-RECOVERY

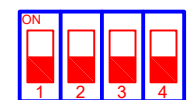
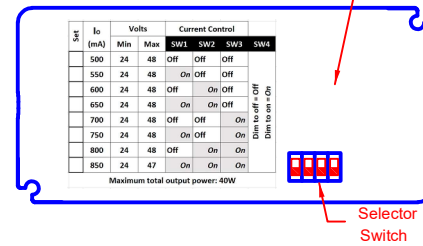
PF, THD AND EFFICIENCY CALCULATIONS ARE BASED ON THE LOADING OF THE DRIVER TO MINIMUM 65% AND MAXIMUM 100% OF 40W

- Notes:**
- 5 yrs warr provided T<sub>c</sub> point remains below 80°C
  - Low flickering – Less than 10% up to 120Hz
  - Dimming: 0-10V Dimming, driver will dim to off.
  - 4 in 1 dimming – TRIAC / ELV / 0-10V / PWM
  - These LED drivers are suitable for factory wiring only.
  - These LED drivers shall be enclosed on the end product.
  - These LED drivers have been evaluated to Class 2 output requirement.
  - These LED drivers meet the requirements identified as Type HL. Drivers may be used on a Class I, Division 2 hazardous (Classified) location luminaires (Per UL 8750, Supplement SB).
  - These LED drivers meet the requirements identified as Class P (Per UL 8750, Supplement SE).
  - These LED drivers meet the requirements identified as Phase-cut Dimming (Per UL 8750, Supplement SH).
  - These LED drivers complies with Low-Voltage Limited-Energy LED Class 2 characteristics.
  - Wired control circuits are isolated (Per UL 8750, Supplement SF).



Set	I <sub>o</sub> (mA)	Volts		Current Control			
		Min	Max	SW1	SW2	SW3	SW4
500	24	48	Off	Off	Off	Off	Dim to off = Off Dim to on = On
550	24	48	On	Off	Off	Off	
600	24	48	Off	On	Off	Off	
650	24	48	On	On	Off	Off	
700	24	48	Off	Off	On	Off	
750	24	48	On	Off	On	Off	
800	24	48	Off	On	On	Off	
850	24	47	On	On	On	Off	

Maximum total output power: 40W



Selector Switch (OFF as default)

**MAGTECH** Magtech Industries Corp  
Isolated, Class 2 Output

MODEL: QM40-U48-0850-XP  
AC INPUT: 100-277Vac/0.50-0.18A,50/60Hz  
DC OUT: 850mA max / 48V max / 40W max  
P/N: 20-5351 REV: C

RoHS  
FCC  
UL  
SELV  
CE  
ACDimm

OUT: LED+(RED) LED-(BLACK)  
DIM: - (PINK) + (PURP)

T<sub>c</sub>=90°C  
LED DRIVER  
LISTED E357847 Class P, Type HL

For Dry and Damp Locations

AC IN: BLACK (L), WHITE (N)

Made in China S/N: P 994239

CON	PIN	COLOR	OUTPUT	AWG	LENGTH
AC IN	---	BLACK	LINE	18	6.5 [165] ±0.5 [±13]
IN	---	WHITE	NEUTRAL	18	
DC OUT	---	RED	+V	18	6.5 [165] ±0.5 [±13]
OUT	---	BLACK	GND	18	
DIM	---	PURPLE	DIM+	22	6.5 [165] ±0.5 [±13]
CNTL	---	PINK	DIM-	22	

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**MAGTECH**

TITLE: QM40-U48-0850-XP, 100-277VAC, 850mA, 48V, 40W MAX

APPROVAL DATE: 07/15/2020 MODEL NO. QM40-U48-0850-XP DWG NO. M20-5351 REV. C1 SH OF 1 1

EFFECTIVE DATE: 08/28/2020

FORM PF-0004