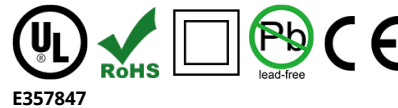


QM40-B Series

CASAMBI ready, Isolated, Class 2, single output LED driver, with Bluetooth communication

PRODUCT FEATURE

- Compact size maximizes design flexibility
- Maximum output power - 40W
- No-load power consumption less than 0.5W
- Low flickering – less than 10% up to 120Hz
- Turn-on time – less than 500mS
- Constant Current or Constant Voltage output
- Easy quick “DIP switch” output programming (CC version only)
- Transient Protection
- UL8750 supplement SF, Class 2, Class P, IEEE789 and CE compliant



SPECIFICATIONS

Input Range	: 110 - 277VAC / 0.30 - 0.15A / 47 - 63Hz
DC output Range	: Refer to model selection table
Efficiency	: 87% typical
Power Factor	: > 0.98 at full load, 115VAC or 230VAC
Output Current Regulation	: ±5%
Protection	: OCP, SCP, OVP - Auto recovery
Surge Rating	: 2.5KVA
PWM dimming Signal	: 500Hz - 10Khz; Min. 10V amplitude
Operation Temp.	: -30°C - +50°C, Tc : 90°C
Storage Temp.	: -40°C - +85°C
Humidity (Non-Condensing)	: 5% to 95%
Vibration Frequency	: 5 to 50Hz
MTBF	: >100,000 Hours, Full load, 25°C Amb., MIL-217F
Regulation Compliance	: UL8750 Supplement SF, Class P EN61347, EN55015, EN61547
Cooling	: Convection
Dimension	: 3.49" x 1.64" x 1.20" (L x W x H)

WARRANTY

- See [Limited Warranty Policy](#) for more additional information

RELATED PRODUCTS

- [QM40 Series](#)
- [QM32 Series](#)
- [QM50 Series](#)
- [QM50-B Series - Casambi compatible](#)
- [QM70 Series](#)
- [QM100 Series](#)

MODEL SELECTION

MODEL NUMBER	DC OUTPUT RANGE (Vf)	MAX OUTPUT CURRENT (mA)	Max output power (W)
QM40-U48-yyy-XP-B	20 – 48VDC	1250 Note 2	40
QM40-U24-XP-B	24 VDC – Constant Voltage	1660	40

- NOTE 1: “yyy” - Output current (-0850 or 1250); XP: 94V-0 plastic case;
 NOTE 2: Refer to output current setting cart
 NOTE 3: “(1)”, Non-AC Dim option
 NOTE 4: With Zigbee or Casambi control option, 4 in 1 dimming feature is disabled.

CASAMBI CONTROL

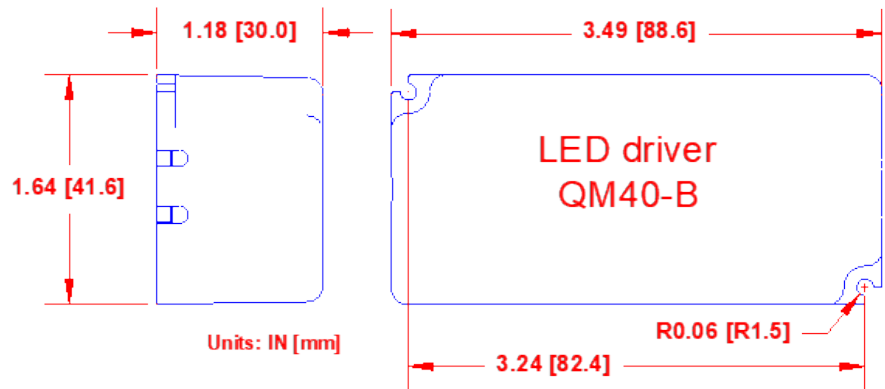


QM40-B Series

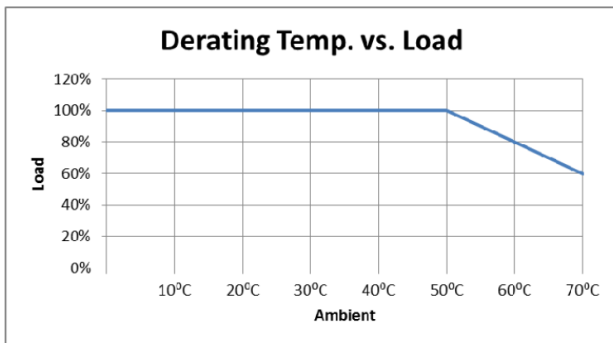
CASAMBI ready, Isolated, Class 2, single output LED driver, with Bluetooth communication

MECHANICAL SPECIFICATION

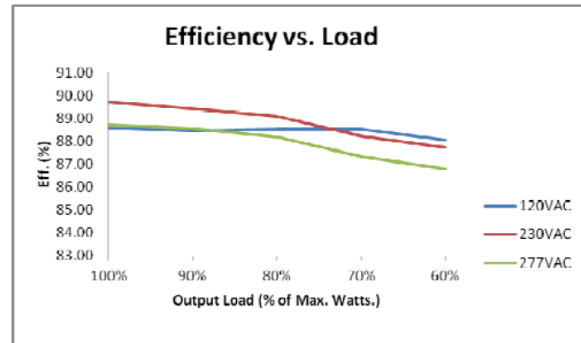
CON	COLOR	OUTPUT	AWG
AC IN	Black	Line	18
	White	Neutral	18
DC OUT	Red	+V	20
	Black	GND	20



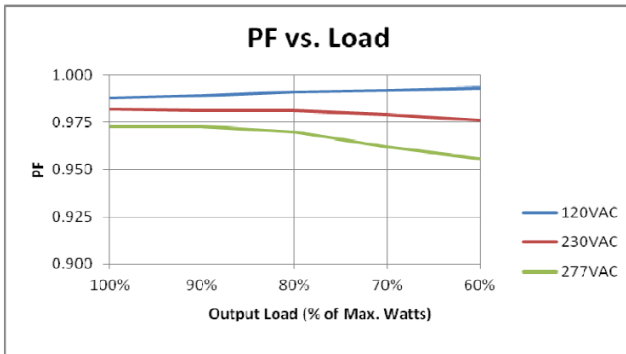
DE-RATING TEMP VS LOAD



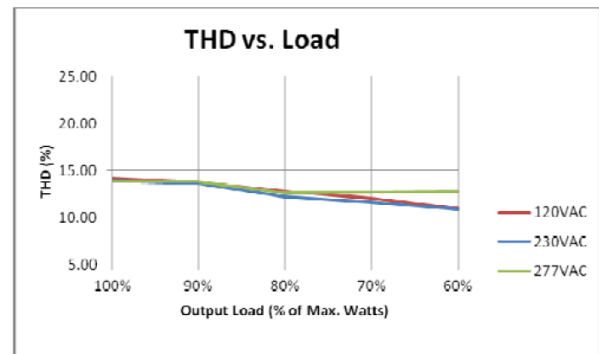
EFFICIENCY VS LOAD



POWER FACTOR VS LOAD



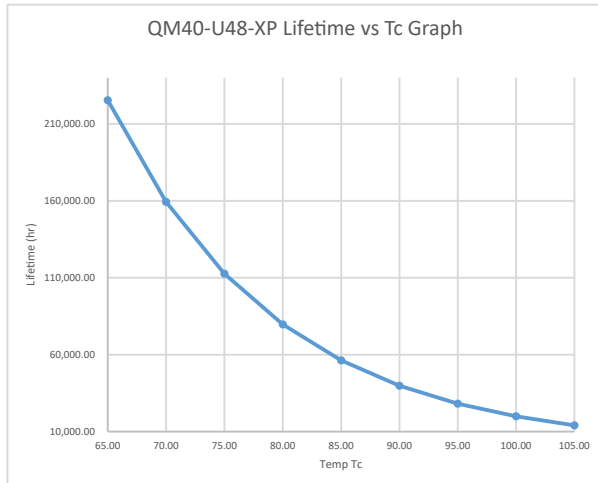
THD VS LOAD



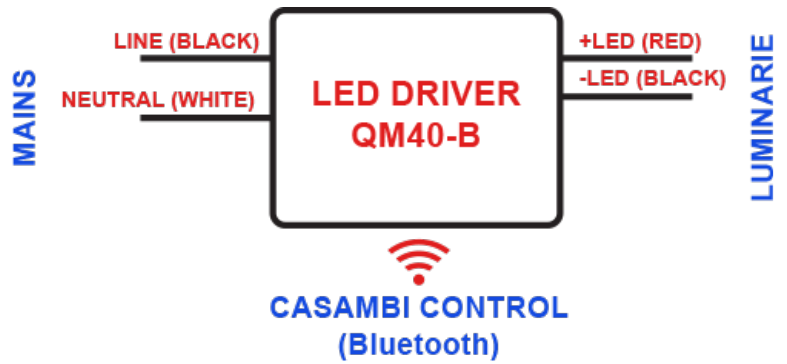
QM40-B Series

CASAMBI ready, Isolated, Class 2, single output LED driver, with Bluetooth communication

LIFE TIME VS AMBIENT TEMP



WIRING DIAGRAM



OUTPUT CURRENT SETTING AND LOW DIM STATUS SETTING ACCURACY: ±2.5%

(For constant current model only)

OUTPUT (mA)	-0850			SW4
	SW1	SW2	SW3	
500	Off	Off	Off	Dim to off = Off Dim to on = On
550	On	Off	Off	
600	Off	On	Off	
650	On	On	Off	
700	Off	Off	On	
750	On	Off	On	
800	Off	On	On	
850	On	On	On	

OUTPUT (mA)	-1250			SW4
	SW1	SW2	SW3	
900	Off	Off	Off	Dim to off = Off Dim to on = On
950	On	Off	Off	
1000	Off	On	Off	
1050	On	On	Off	
1100	Off	Off	On	
1150	On	Off	On	
1200	Off	On	On	
1250	On	On	On	