

M38 Series

AC-Dimm[®]

Product Specifications

ANZ#: Z210b, January 9, 2014

High Power Constant Current LED Driver

Total Power 40 Watts max.

Input Voltages 110 ~ 277VAC

Number of Outputs One

SPECIAL FEATURES

- Compact size maximizes design flexibility.
- Available in plastic and stud-mount metal enclosures
- Fully potted, suitable for dry and damp location applications
- Compatible with Standard Electronics Low Voltage Dimmers
- UL8750 Class 2 and CE compliant
- Full range AC input from 115 ~ 277V

ENVIRONMENTAL

Operating temperature: -40 to +50 °C
Storage temperature: -40 to +85 °C
Humidity (Non-Condensing): 5% to 95%
Cooling: Convection
Vibration Frequency: 5 to 50 Hz
MTBF: >100,000 Hours at full load and 25°C ambient conditions (MIL-217F)

SPECIFICATIONS :

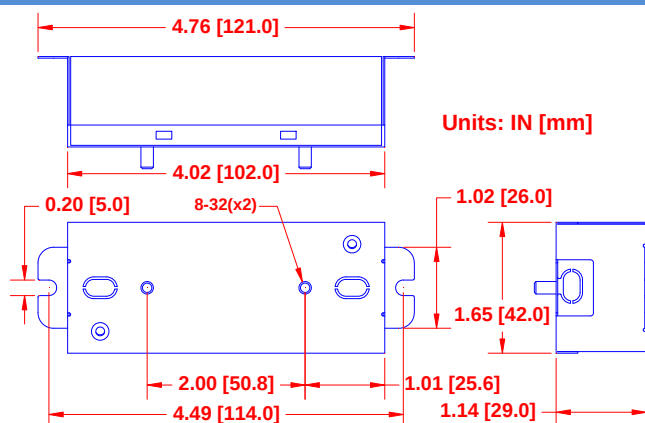
Input Range : 110 ~ 277VAC / 0.30 ~ 0.15A /47~63Hz	Power Factor: > 0.98 at full load, 115VAC or 230VAC
DC Output Range : Refer to Model selection table	Operation Temp. : -30°C ~ +50°C , Tc : 80 °C
Efficiency : 87% Typical	Storage Temp. : -40°C ~ +85°C
Output Current Regulation : ±5%	MTBF(@25°C) : >100,000 Hours, MIL-217F
Protection : OCP, SCP, OVP – Auto Recovery	Regulation Compliance: UL8750 or EN61347, EN55015, EN61547
Dimming : Compatible with ELV dimmers	Dimension: 3.49" (L) x 1.64" (W) x 1.20" (H)

MODEL SELECTION :

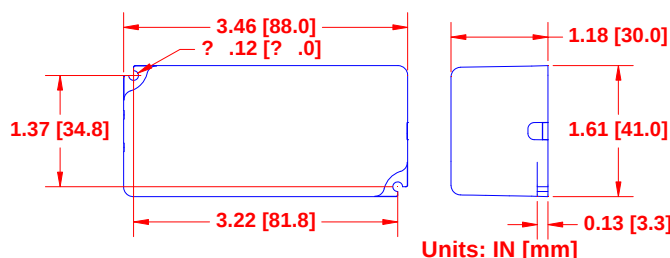
Model Number	DC Output Range (Vf)	Max. Output Current (mA)	Max. Output Power (W)
M38-U24-yyyy-Xz	14 ~ 24 VDC	1660	40
M38-U30-yyyy-Xz	16 ~ 30 VDC	1330	40
M38-U36-yyyy-Xz	20 ~ 36 VDC	1110	40
M38-U42-yyyy-Xz	27 ~ 42 VDC	950	40
M38-U54-yyyy-Xz	36 ~ 54 VDC	830	40

"xx" = Output Voltage ; "yyyy" = Output current ; "z" = Case style and material, Xp = 94V-0 plastic ; Xm = stud-mount metal

MECHANICAL SPECIFICATION : M38-Uxx-yyyy-Xz



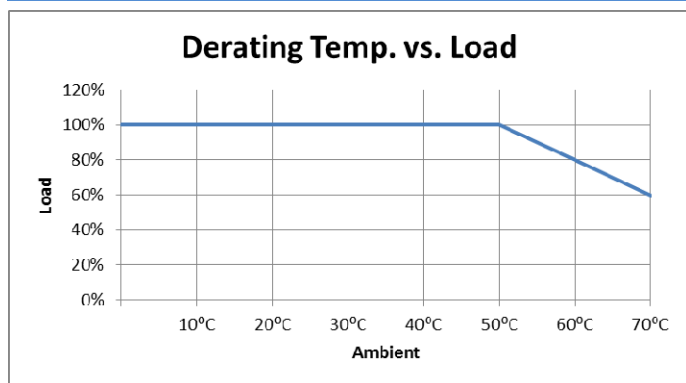
"Xm" – Stud-mountable Metal Case



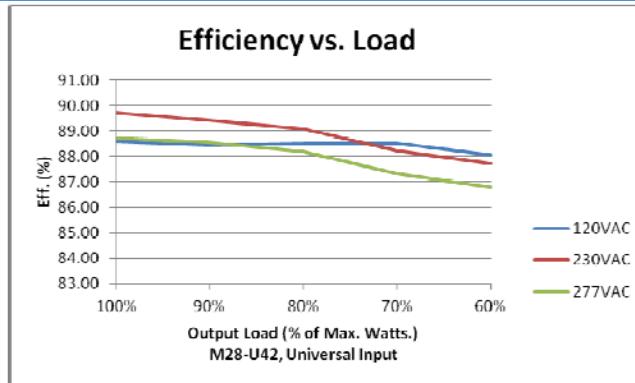
"Xp" – Plastic Case



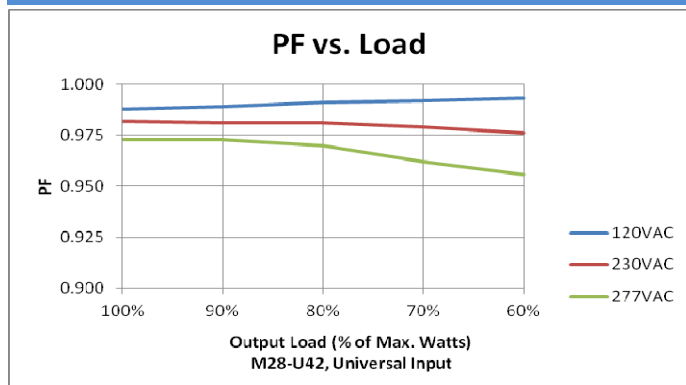
De-rating Temp vs. Load



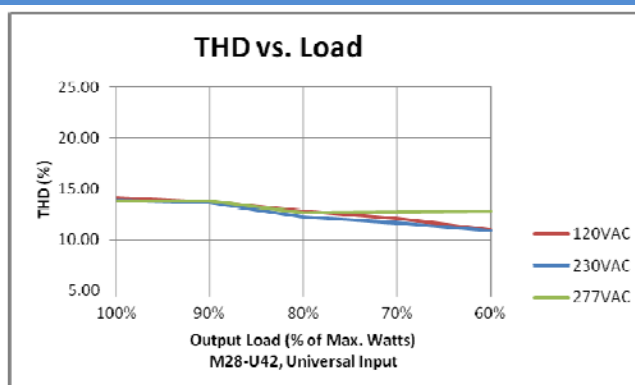
Efficiency vs. Load



Power Factor vs. Load



THD vs. Load



Life Time vs. Ambient Temp

