

# M28 Series

# AC-Dimm<sup>®</sup>

# Preliminary Product Specifications

ANZ#: Z198e, January 9, 2014

High Power Constant Current LED Driver	
Total Power	30 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)

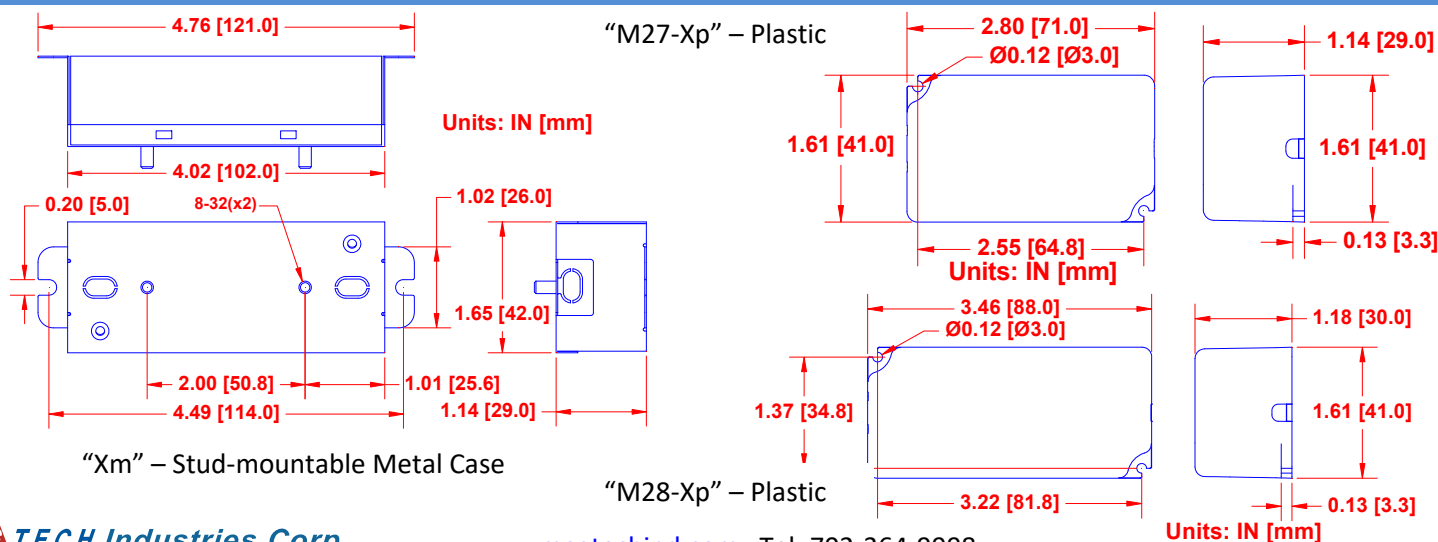


## MODEL SELECTION :

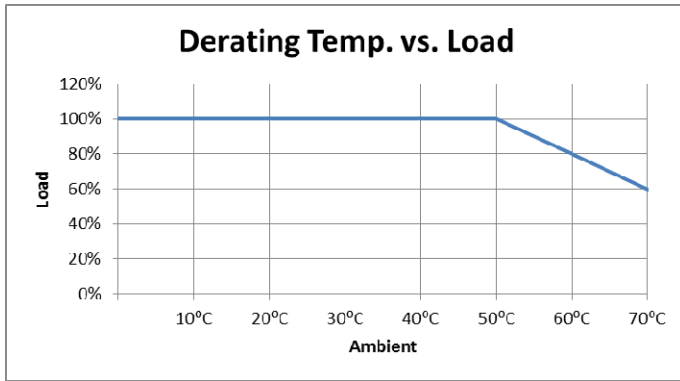
Model Number	DC Output Range (Vf)	Max. Output Current (mA)	Max. Output Power (W)
M28-U24-yyyy-Xz	15 ~ 24 VDC	1250	30
M28-U30-yyyy-Xz	16 ~ 30 VDC	1000	30
M28-U36-yyyy-Xz	20 ~ 36 VDC	830	30
M28-U42-yyyy-Xz	28 ~ 42 VDC	720	30
M28-U54-yyyy-Xz	40 ~ 54 VDC	625	30

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

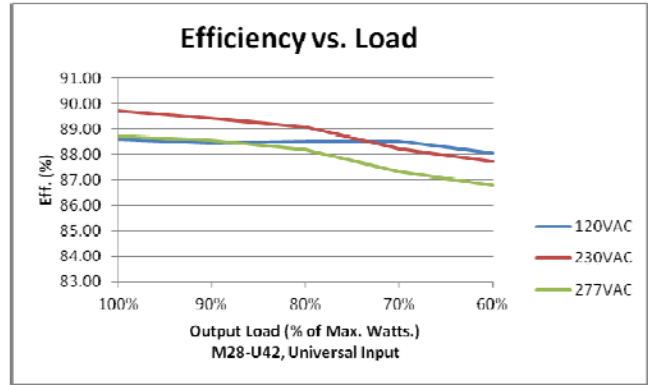
## MECHANICAL SPECIFICATION : M28-Uxx-yyyy-Xz



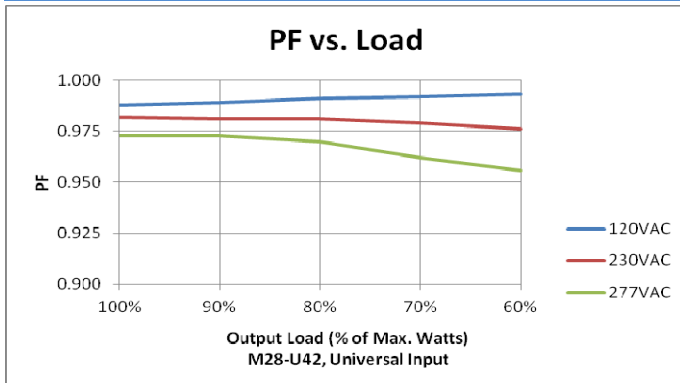
## De-rating Temp vs. Load



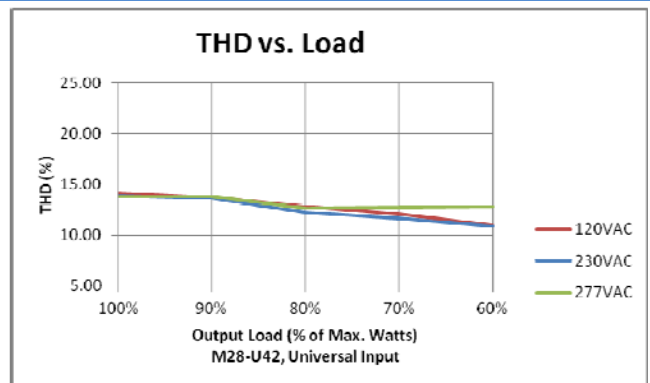
## Efficiency vs. Load



## Power Factor vs. Load



## THD vs. Load



## Life Time vs. Ambient Temp

