

# M18-U Series AC-DIMM<sup>®</sup>

# Product Specifications

ANZ#: Z208a, June 1, 2014

High Power Constant Current LED Driver	
Total Power	18 Watts max.
Input Voltages	110 ~ 277VAC
Number of Outputs	One

## SPECIAL FEATURES

- Compact size maximizes design flexibility.
- 3.36" (L) x 1.50" (W) x 1.09" (H)
- Fully potted, suitable for dry and damp location applications
- Dimmable, compatible with Electronic Low Voltage (ELV) dimmer
- UL8750 Class 2 and CE compliant
- Wide selection of pre-adjusted C/C outputs

## ENVIRONMENTAL

Operating temperature:	-20 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)



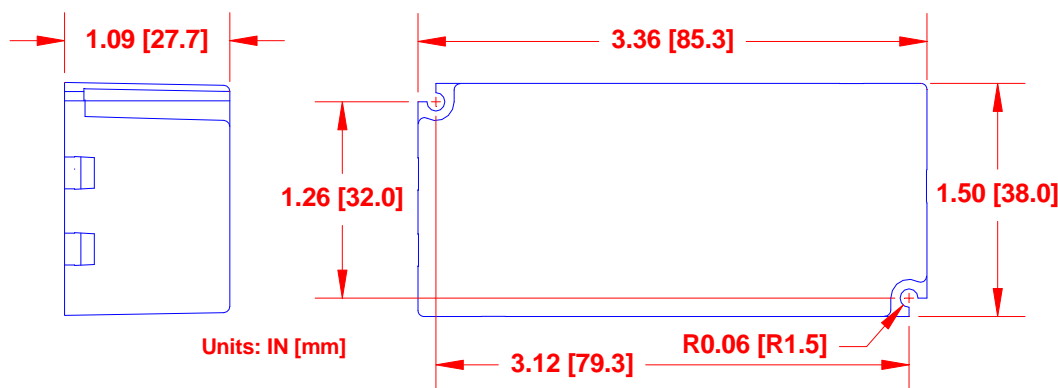
## SPECIFICATIONS :

Input Range : 110 ~ 277VAC / 0.23~0.1A /47~63Hz	Power Factor: > 0.98 at full load, 115VAC or 230VAC
DC Output Range : Refer to Model selection table	Operation Temp. : -20°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 : AC Phase – trailing-edge compatible only	Dimension: 3.36" (L) x 1.50" (W) x 1.09" (H)

## MODEL

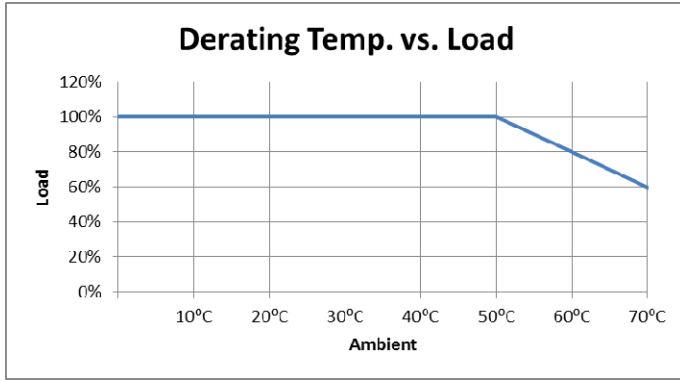
Model Number	DC Output (Vf)	Max. Output	Model Number	DC Output (Vf)	Max. Output
M18-U18-0820	10 ~ 18 VDC	830 / 15.0	M18-U36-0500	21 ~ 36 VDC	500 / 18.0
M18-U24-0750	15 ~ 24 VDC	750 / 18.0	M18-U42-0430	26 ~ 42 VDC	430 / 18.0
M18-U30-0600	18 ~ 30 VDC	600 / 18.0	M18-U54-0300	32 ~ 56 VDC	330 / 18.0

## MECHANICAL SPECIFICATION : M18-UYZ-ZZZZ-XP

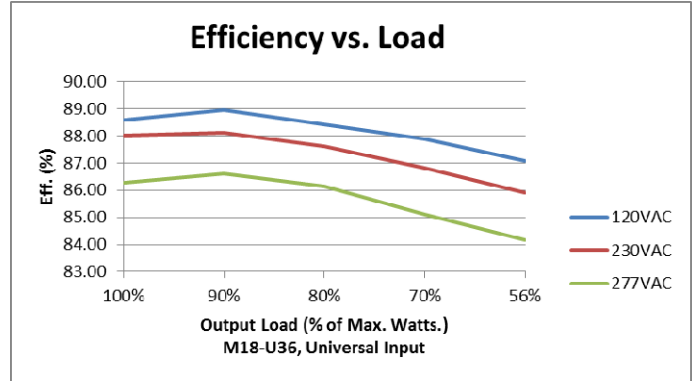


Note: "-XP" is an optional feature. When ordered with "-XP", the maximum height is 0.98" (25mm)

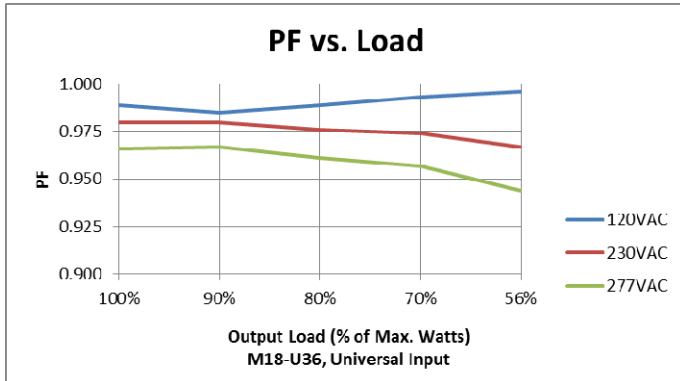
## De-rating Temp vs. Load



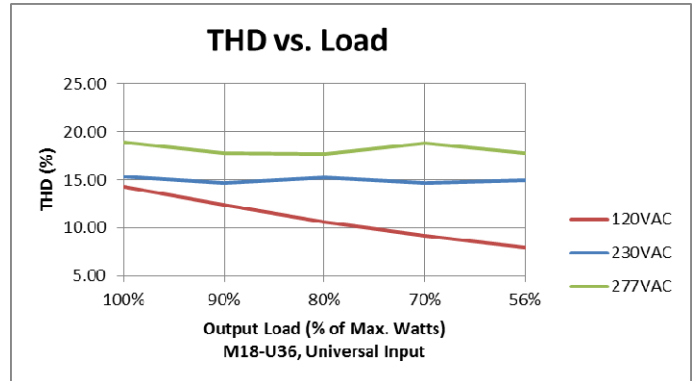
## Efficiency vs. Load



## Power Factor vs. Load



## THD vs. Load



## Life Time vs. Ambient Temp

