

# M48 Series

# AC-Dimm®

# Product Specifications

ANZ#: Z225c, October 1, 2015

High Power Constant Current LED Driver	
Total Power	50 Watts max.
Input Voltages	110 ~ 277VAC
Number of Outputs	One

## SPECIAL FEATURES

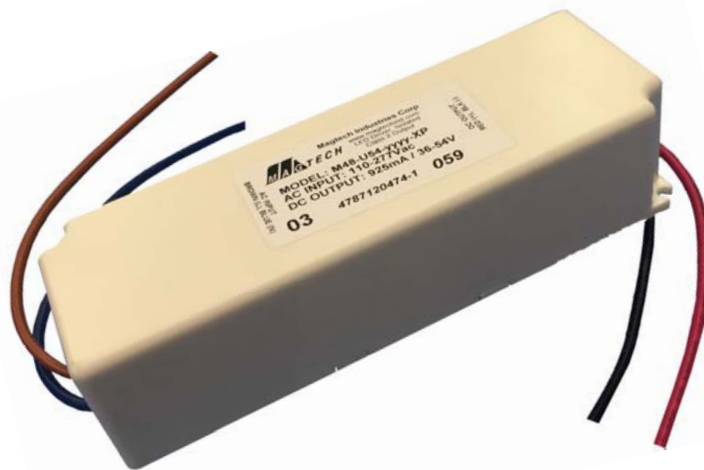
- Full range AC input from 110 ~ 277VAC/50-60Hz
- Available in plastic enclosures
- Fully potted, suitable for dry and damp location applications
- Compatible with Standard Electronics Low Voltage Dimmers
- UL8750 Class 2 and CE compliant

## ENVIRONMENTAL

Operating temperature:	-30 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 / 0.40 ~ 0.25A /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; EN61347, EN55015, EN61547
Dimming : Compatible with ELV dimmers	Dimension: 5.43" (L) x 1.85" (W) x 1.26" (H)

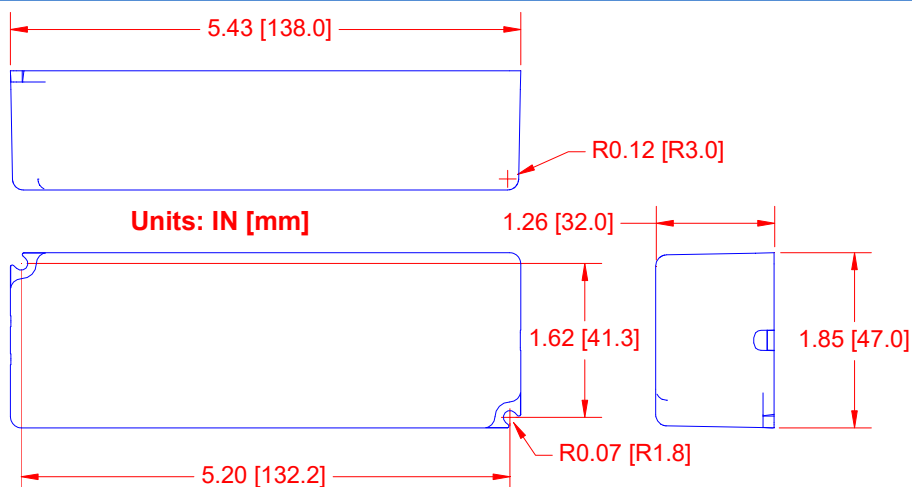


## MODEL SELECTION :

Model Number	DC Output Range (Vf)	Max. Output Current (mA)	Max. Output Power (W)
M48-U24-yyyy-XP	14 ~ 24 VDC	2090	50
M48-U30-yyyy-XP	16 ~ 30 VDC	1670	50
M48-U36-yyyy-XP	20 ~ 36 VDC	1390	50
M48-U42-yyyy-XP	27 ~ 42 VDC	1200	50
M48-U54-yyyy-XP	36 ~ 54 VDC	1050	50

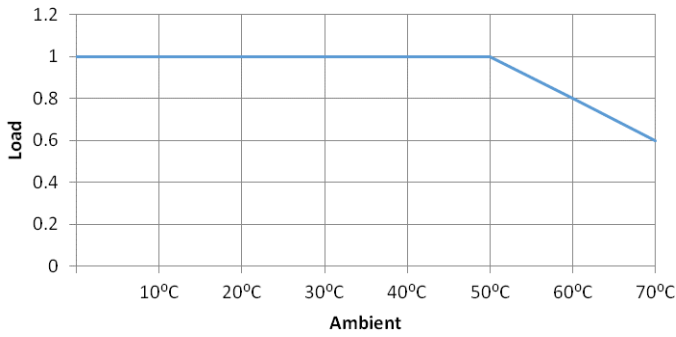
“xx” = Output Voltage ; “yyyy” = Output current ; “z” = Case style and material, Xp = 94V-0 plastic ;

## MECHANICAL SPECIFICATION : M48-Uxx-yyyy-Xz



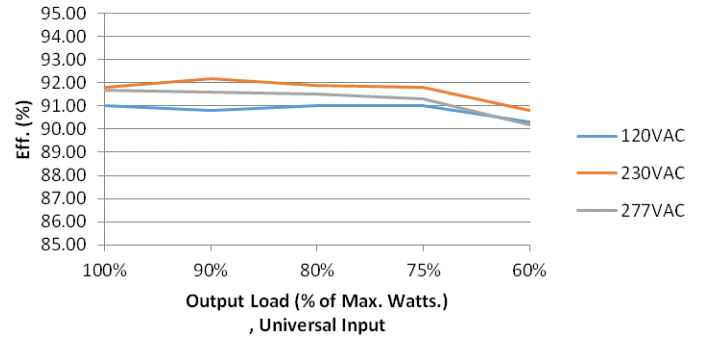
## De-rating Temp vs. Load

### Derating Temp. vs. Load



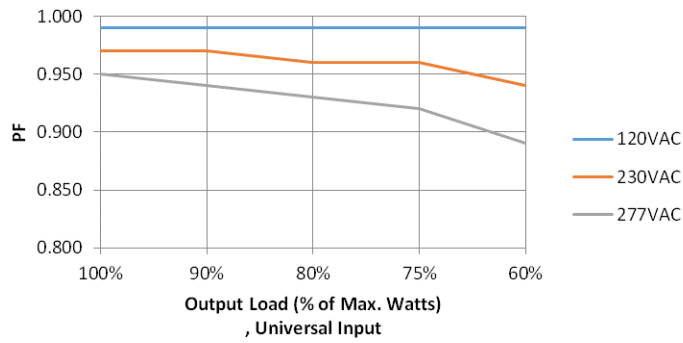
## Efficiency vs. Load

### Efficiency vs. Load



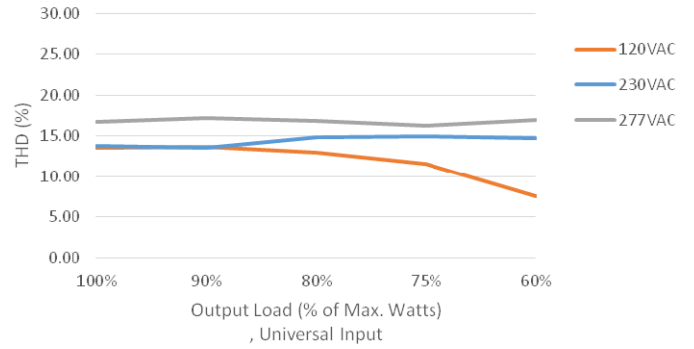
## Power Factor vs. Load

### PF vs. Load



## THD vs. Load

### THD vs. Load



## Life Time vs. Ambient Temp

### Est Lifetime

