

# M18 Series -AC-DIMM+<sup>®</sup>

# Product Specifications

ANZ#: Z185d, May 8, 2012

High Power Constant Current LED Driver	
Total Power	18 Watts max.
Input Voltages	110VAC or 220VAC or 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
- Phase dimmable, compatible with Standard Triac and Electronics Low Voltage Dimmers
- UL8750 Class 2 (110V) or CE compliant (230V)
- 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 or 220 or 110-277VAC / 0.3~0.15A / 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 - leading or trailing edge (110 or 220 only)	Dimension: 3.36" (L) x 1.50" (W) x 1.09" (H)

## MODEL SELECTION :

Model Number (110VAC)	DC Output (Vf)	Max. Output (mA/Watts)	Model Number (220VAC)	DC Output (Vf)	Max. Output (mA/Watts)
M18-A24-0750	15 ~ 24 VDC	750 / 18.0	M18-E24-0750	15 ~ 24 VDC	750 / 18.0
M18-A36-0500	21 ~ 36 VDC	500 / 18.0	M18-E36-0500	21 ~ 36 VDC	500 / 18.0
M18-A42-0420	26 ~ 42 VDC	420 / 18.0	M18-E42-0420	26 ~ 42 VDC	420 / 18.0
M18-A54-0300	32 ~ 56 VDC	320 / 18.0	M18-E54-0300	32 ~ 56 VDC	320 / 18.0

Notes: "U": Universal Input, 100-277VAC or "A": 110VAC or "E": 220VAC input  
AC-Dimm+<sup>®</sup> only apply to models "A" 110VAC and "E": 220VAC input

## MECHANICAL SPECIFICATION : M18-XYZ-ZZZZ

U = Universal AC input, 110-277VAC

A = 110VAC input

E = 220VAC input

