

Project Name:	
Type:	

# MD42 Series

40 Watts max | 110 - 277VAC

## PRODUCT FEATURE

- Compact size maximizes design flexibility.
- Available in plastic and stud-mount metal enclosures
- Fully potted, suitable for dry and damp location applications
- 4-in-1 dimming method, TriAC/ELV/0-10V/PWM
- UL8750 Class 2 Class P, TL mark and HL certified; CE certified
- Full range AC input from 115 - 277V



## ELECTRICAL SPECIFICATIONS

INPUT RANGE	:	100 - 277VAC / 0.3/ 0.15A; 47-63Hz
DC OUTPUT RANGE	:	Refer to Model selection table
EFFICIENCY	:	87% Typical; Start up time: less than 0.5 Sec.
OUTPUT CURRENT REGULATION	:	±5%
PROTECTION	:	OCP, SCP, OVP - Auto Recovery
DIMMING	:	Compatible with TRIAC; ELV; 0-10C; PWM
POWER FACTOR	:	> 0.98 at full load, 115VAC or 230VAC
OPERATION TEMP.	:	-30°C - + 50°C, Tc: 80°C
STORAGE TEMP.	:	-40°C - + 85°C
MTBF(@25°C)	:	>100,000 hours, MIL-217F
REGULATION COMPLIANCE	:	UL8750 or EN61347, EN55015, EN61547
DIMENSION	:	3.49" x 1.64" x 1.20" (L x W x H)

## 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 50Hz
MTBF	:	>100,00 Hours at full load and 25°C ambient conditions (MIL-217F)

## WARRANTY

- See [Limited Warranty Policy](#) for more additional information.

## MODEL SELECTION

MODEL NUMBER	DC OUTPUT (VF)	MAX. OUTPUT CURRENT (mA)	MAX. OUTPUT POWER (W)
MD42-U24-yyy-Xz	14 – 24 VDC	2000 – 1000	40
MD42-U30-yyy-Xz	16 – 30 VDC	1540 – 800	40
MD42-U36-yyy-Xz	20 – 36 VDC	1340 – 670	40
MD42-U42-yyy-Xz	27 – 42 VDC	1150 – 580	40
MD42-U54-yyy-Xz	36 – 54 VDC	890 – 450	40

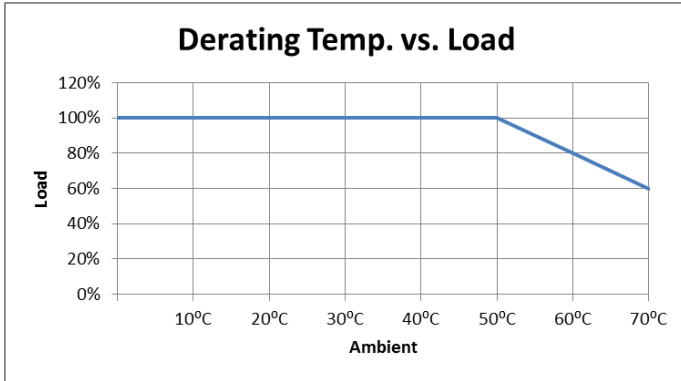
- "xx" = Output Voltage ; "yyy" = Output current ; "z" = Case style and material, Xp = 94V-0 plastic ; Xm = stud-mount metal
- 0-10V dimming profile: 10V-8.8V = 100%; 1V = 3%; < 1V output remain on. (This apply to 110VAC input only and 80% greater load condition)
- Compatible with ELV and 0-10V dimmers at specified AC input range when adequate dimmer is used.
- Compatible with ELV and TriAC dimmers at 120VAC only when adequate dimmer is used.
- Complies with Energy Star® specifications and DLC requirements

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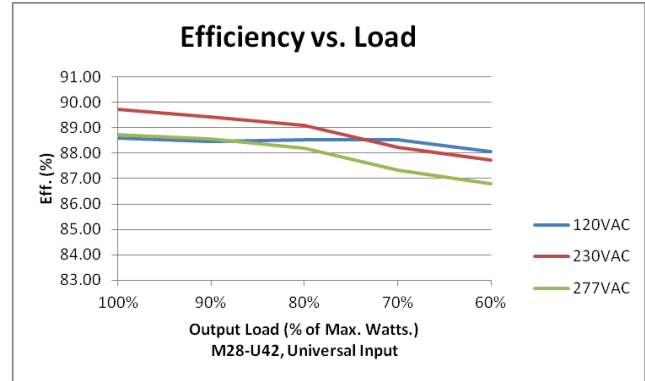
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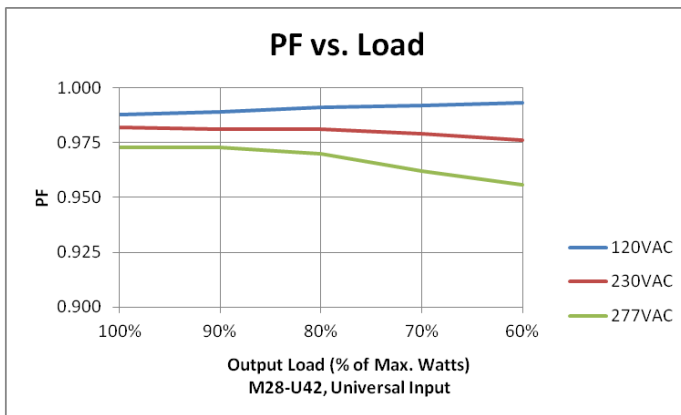
## DE-RATING TEMP. VS. LOAD



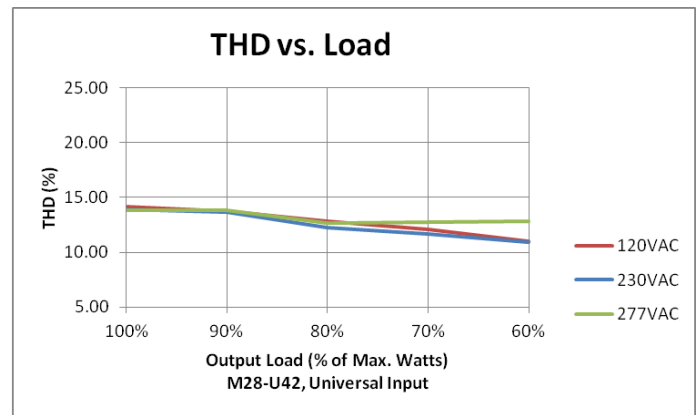
## EFFICIENCY VS LOAD



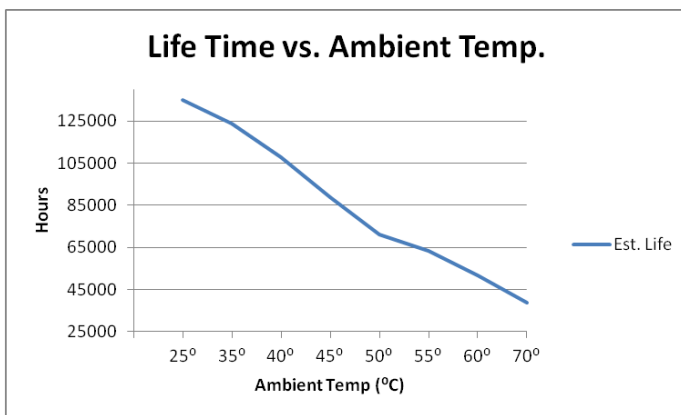
## POWER FACTOR VS LOAD



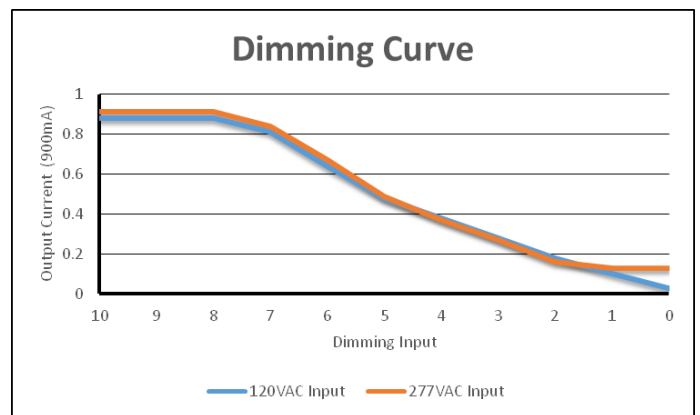
## THD VS. LOAD



## LIFE TIME VS. AMBIENT TEMP.



## 0-10V DIMMING CURVE



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## MECHANICAL DRAWING M9-XYX-ZZZZ

"Xp" – Plastic Case / TL Mark Certified

