

Project Name:	
Type:	

# MD22 Series

20 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	:	3.36" x 1.49" x 0.98" (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

## WARRANTY

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

## MODEL SELECTION

MODEL NUMBER	DC OUTPUT (VF)	MAX. OUTPUT CURRENT (mA)	MAX. OUTPUT POWER (W)
MD22-U24-yyyy-Xz	14 - 24 VDC	500 - 250	10
MD22-U30-yyyy-Xz	16 - 30 VDC	400 - 200	10
MD22-U36-yyyy-Xz	20 - 36 VDC	350 - 170	10
MD22-U42-yyyy-Xz	24 - 42 VDC	300 - 150	10
MD22-U54-yyyy-Xz	36 - 54 VDC	250 - 120	10
MD22-U24-yyyy-Xz	14 - 24 VDC	1000 - 500	20
MD22-U30-yyyy-Xz	16 - 30 VDC	770 - 400	20
MD22-U36-yyyy-Xz	20 - 36 VDC	670 - 340	20
MD22-U42-yyyy-Xz	27 - 42 VDC	580 - 290	20
MD22-U54-yyyy-Xz	36 - 54 VDC	450 - 230	20

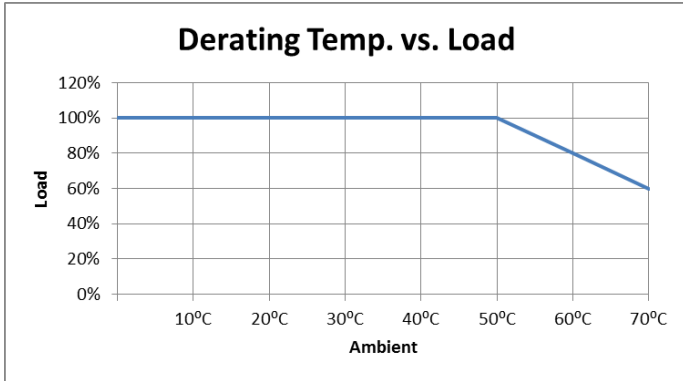
- "xx" = Output Voltage ; "yyyy" = Output current ; "z" = Case style and material, Xp = 94V-0 plastic ; Xm = stud-mount metal
- 0-10V dimming profile: 10V-8.8V = 100%; 1V = 3%; < 1V output remain on. (This apply to 110VAC input only and 80% greater load condition)
- Compatible with ELV and 0-10V dimmers 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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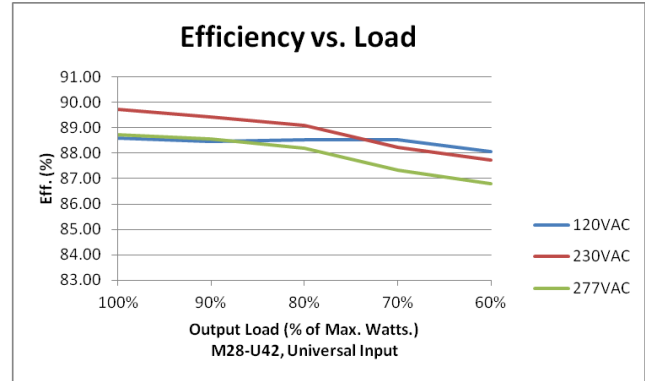
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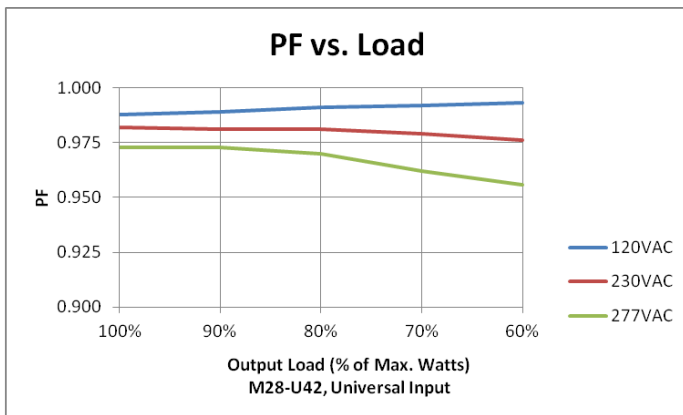
## DE-RATING TEMP. VS. LOAD



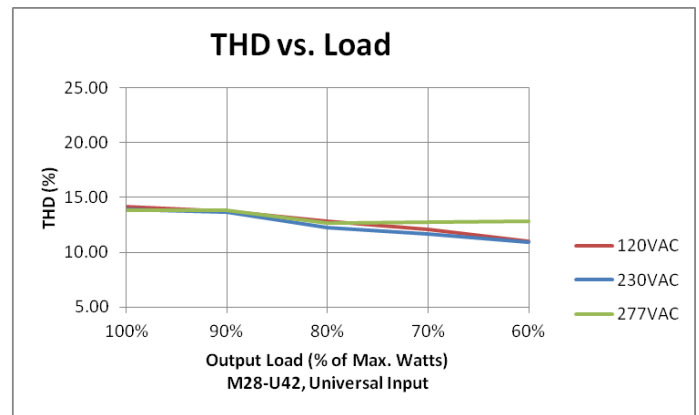
## EFFICIENCY VS LOAD



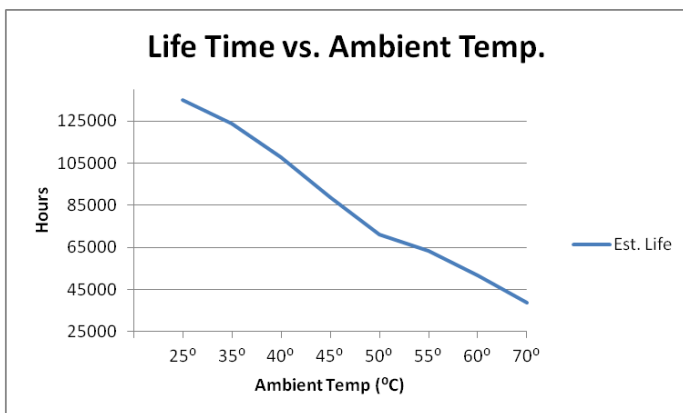
## POWER FACTOR VS LOAD



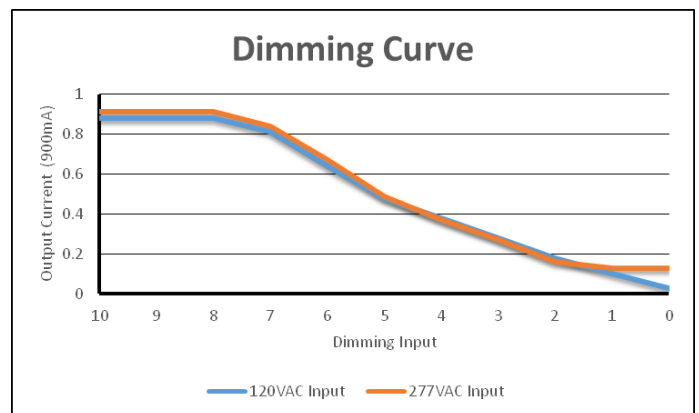
## THD VS. LOAD



## LIFE TIME VS. AMBIENT TEMP.



## 0-10V DIMMING CURVE



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## MECHANICAL DRAWING MD22-Uxx-YYYY-Xz

"Xp" – Plastic Case / TL Mark Certified

