

Project Name:	
Type:	

M48-U Series

50 Watts max | 110 - 277VAC

PRODUCT FEATURE

- 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



ELECTRICAL SPECIFICATIONS

INPUT RANGE	:	100 - 277VAC / 0.40 - 0.25A/ 47 - 63Hz
DC OUTPUT RANGE	:	Refer to Model selection table
EFFICIENCY	:	87% Typical
OUTPUT CURRENT REGULATION	:	±5%
PROTECTION	:	OCP, SCP, OVP - Auto Recovery
DIMMING	:	Compatible with ELV dimmers
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	:	5.43" x 1.85" x 1.26" (L x W x H)

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 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 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	24 - 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 ; Xm = stud-mount metal

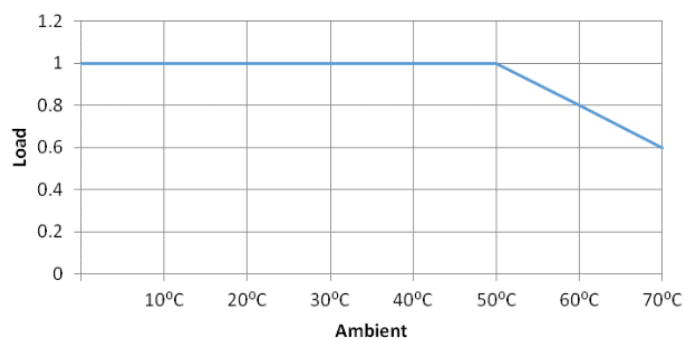
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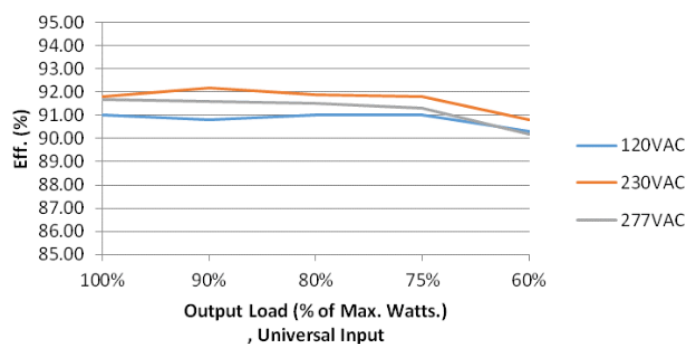
DE-RATING TEMP. VS. LOAD

Derating Temp. vs. Load



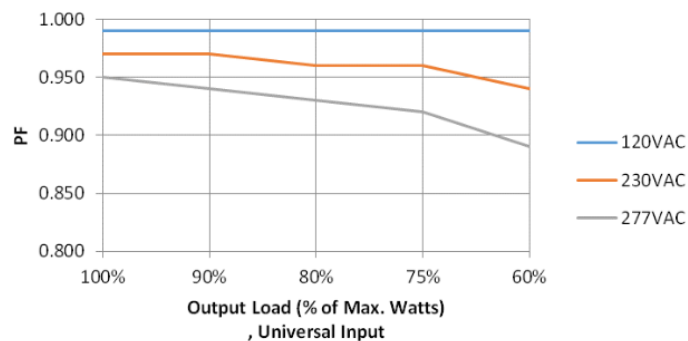
EFFICIENCY VS LOAD

Efficiency vs. Load



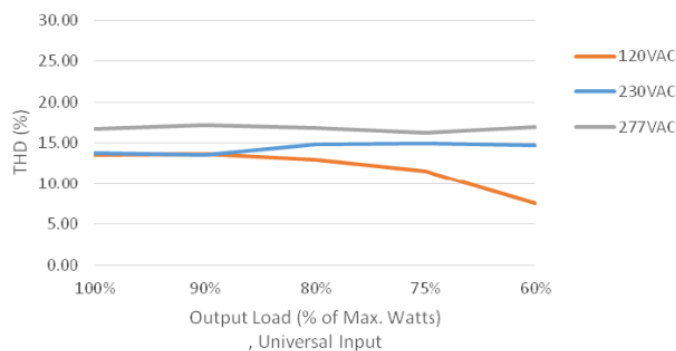
POWER FACTOR VS LOAD

PF vs. Load



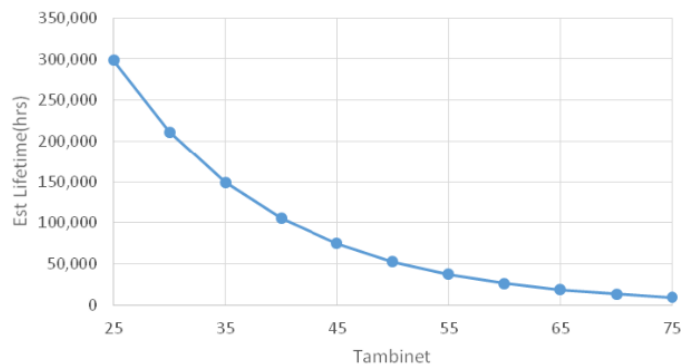
THD VS. LOAD

THD vs. Load



LIFE TIME VS. AMBIENT TEMP.

Est Lifetime



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MECHANICAL DRAWING M38-Uxx-yyyy-Xz

