

Q48 Dual Series

50 Watts max | 110 - 277VAC

PRODUCT FEATURE

- Universal Input range from 100VAC~304VAC, 50/60Hz
- Support "Dim to Warm", "White Tunable" color tuning
- Dual CC outputs support color temperature adjustment
- Size: XP: TBD / XM: 108.3x76.3x30mm (LxWxH)
- Fully potted, suitable for dry and damp location applications
- UL8750 TL marking and CE compliant
- Wide selection of pre-adjusted C/C outputs (factory setting)



ELECTRICAL SPECIFICATIONS

INPUT RANGE	: 100 - 277VAC; FREQUENCY: 47 TO 63Hz
POWER FACTOR	: > 0.92 at 65% to 100% load, 115VAC or 230VAC
INPUT CURRENT	: 0.6 Amps max. at 115VAC
OUTPUT CURRENT REGULATION	: ±3%
PROTECTION	: OCP, SCP, OLP – Auto Recovery
CONTROL	: 0-10V dimmer; PWM (250-3KHz); Potentiometer; Enable
HOLD UP TIME	: Half cycle min. at 120VAC and 80% rated load
TURN ON TIME	: < 750mS
INRUSH CURRENT	: 13.0 Amps max. at 230VAC, cold start 25°C
EFFICIENCY	: 87% Typical
MAXIMUM POWER	: 50W
LEAKAGE CURRENT	: 50uA typ.
DIMENSION	: XP: TBD/ XM: 108.3 X 76.3 X 30mm (L x W x H)
REGULATION COMPLIANCE	: UL8750 or EN61347, EN55015, EN61547



ENVIRONMENTAL

OPERATING TEMPERATURE	: -40 to 50°C, Tc: 85°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 (TELC3 – Telcordia SR-332, Issue 3)

WARRANTY

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

MODEL SELECTION

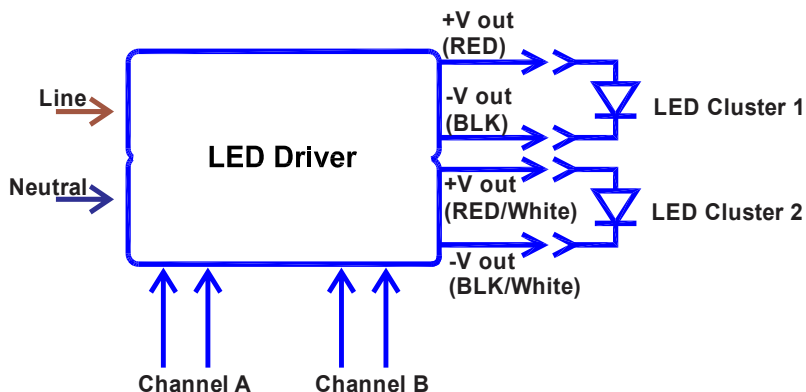
MODEL NUMBER	CONSTANT CURRENT MODE			
	CHANNEL A (MA)	CHANNEL B (MA)	CHANNEL A & B (VDC)	MAX. W (A + B)
Q48-U24-Dyyyy-Xz	1100 ~ 525		14 ~ 24	50
Q48-U30-Dyyyy-Xz	900 ~ 420		19 ~ 30	50
Q48-U36-Dyyyy-Xz	750 ~ 350		23 ~ 36	50
Q48-U42-Dyyyy-Xz	625 ~ 315		27 ~ 42	50
Q48-U48-Dyyyy-Xz	550 ~ 235		30 ~ 48	50
Q48-U54-Dyyyy-Xz	500 ~ 225		34 ~ 54	50

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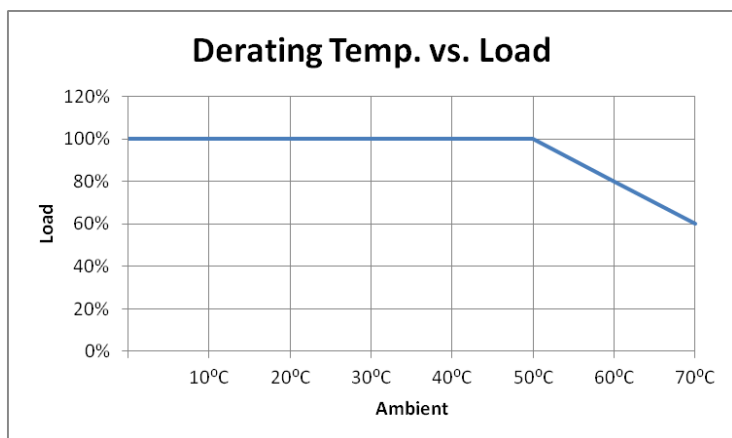
Project Name:	
Type:	

CONTROL WIRING DIAGRAM AND LOGIC TABLE

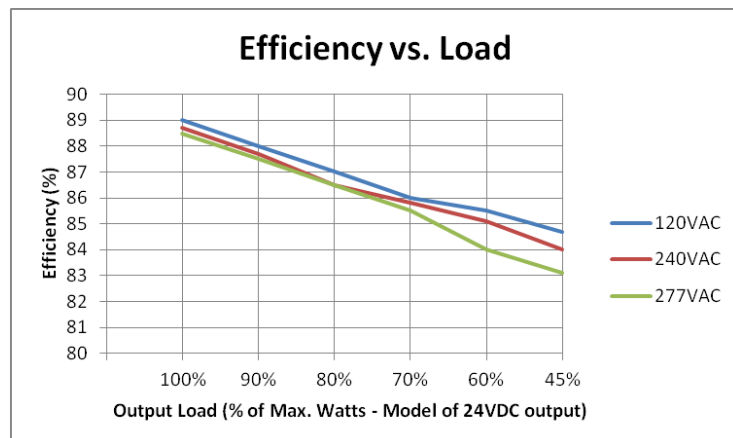


OPTIONS	FUNCTIONS	CH - A	CH - B
1	Color Temp.	0 – 10V	
	Dimming		0 – 10V
	Color Temp.	PWM	
	Dimming		PWM
2	LED Cluster 1	0 – 10V	
	LED Cluster 2		0 – 10V
	LED Cluster 1	PWM	
	LED Cluster 2		PWM

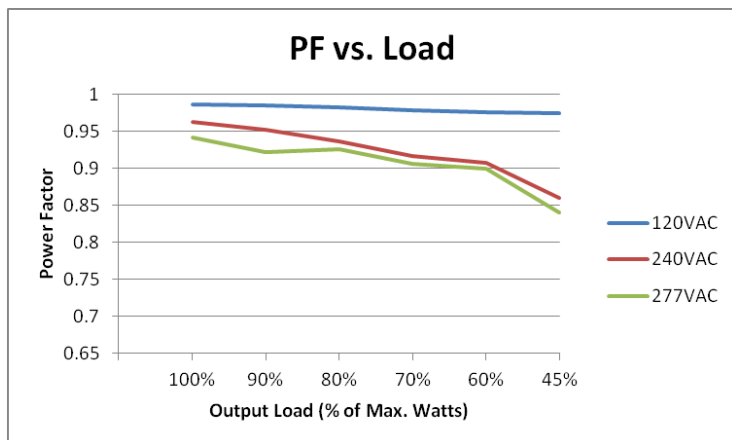
DE-RATING TEMP. VS. LOAD



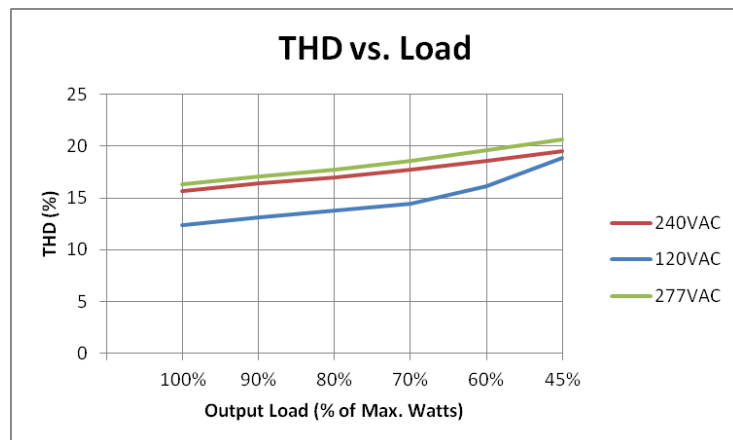
EFFICIENCY VS. LOAD



POWER FACTOR VS. LOAD



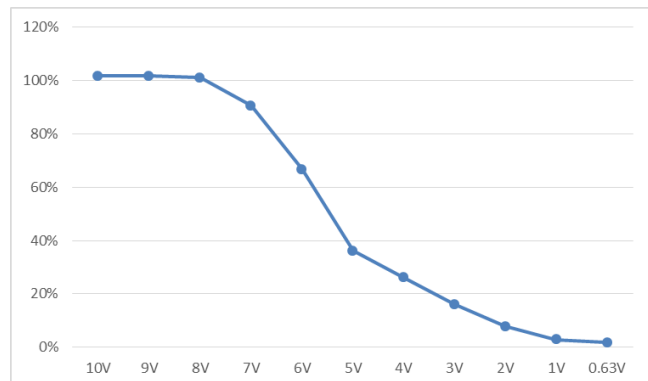
THD VS. LOAD



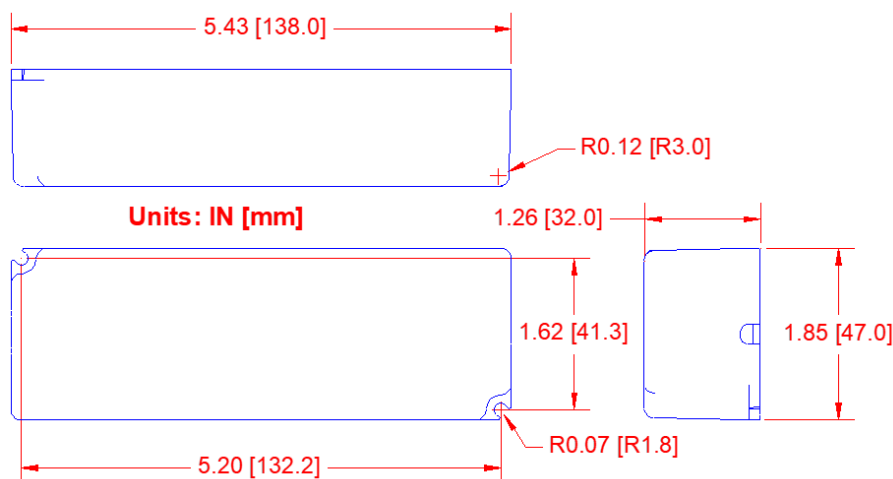
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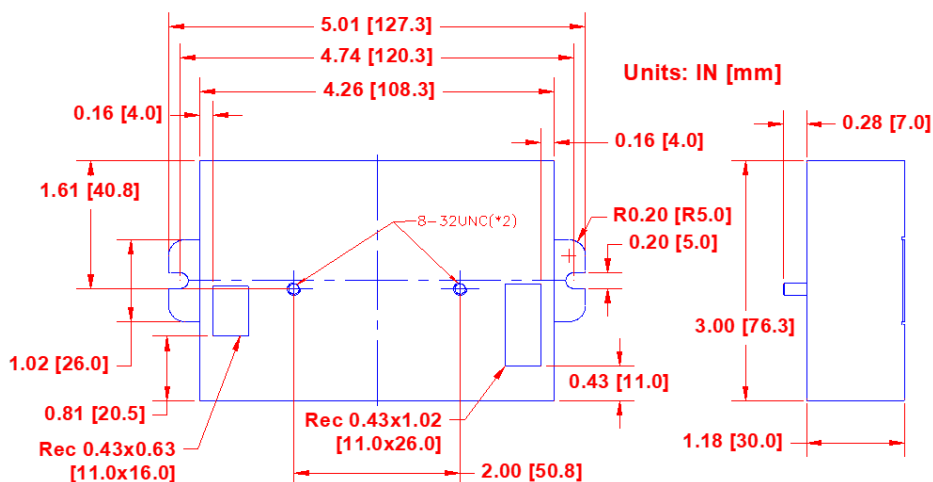
DIMMING CURVE



MECHANICAL DRAWING Q22-UXX-XP-CYYYY



XP, plastic enclosure



XM, metal stud-mount enclosure
(Preliminary)