

QM70 Series

70 Watts Max, 110-277VAC
High Power Constant Current LED Driver

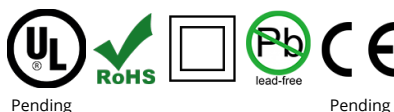
PRODUCT FEATURE

- Compact size maximizes design flexibility
- Low flickering – Less than 10% up to 120Hz
- No-load power consumption less than 0.5W
- 3 in 1 dimming – ELV / 0-10V / PWM
- Dimming percentage < 1% typ. - All dimming methods
- CC or CV output with 3 in 1 dimming capabilities
- Easy quick NFC output programming
- Wireless using ZigBee Protocol – Optional
- Transient Protection
- UL8750 Supplement SF, Class 2; Class P and CE compliant

SPECIFICATIONS

Input Range	: 110 - 277VAC / 0.30 - 0.15A / 47 - 63Hz
DC output Range	: Refer to model selection table
Efficiency	: 87% typical
Power Factor	: > 0.98 at full load, 115VAC or 230VAC
Output Current Regulation	: ±5%
Protection	: OCP, SCP, OVP - Auto recovery
Surge Rating	: 4.0 KVA
Dimming	: Compatible with TRIAC / ELV / 0-10V / PWM
PWM dimming Signal	: 500Hz - 10Khz; Min. 10V amplitude
Operation Temp.	: -30°C - +50°C, Tc : 85°C
Storage Temp.	: -40°C - +85°C
Humidity (Non-Condensing)	: 5% to 95%
Vibration Frequency	: 5 to 50Hz
MTBF	: >100,000 hours, Full load, 25°C Amb., MIL-217F
Regulation Compliance	: UL8750 Supplement SF, Class P EN61347, EN55015, EN61547
Cooling	: Convection
Dimension	: 3.49" x 1.64" x 1.20" (L x W x H)

PRODUCT PICTURE NOT AVAILABLE



WARRANTY

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

RELATED PRODUCTS

- ↗ [QM32 Series](#)
- ↗ [QM40 Series](#)
- ↗ [QM50 Series](#)
- ↗ [QM100 Series](#)

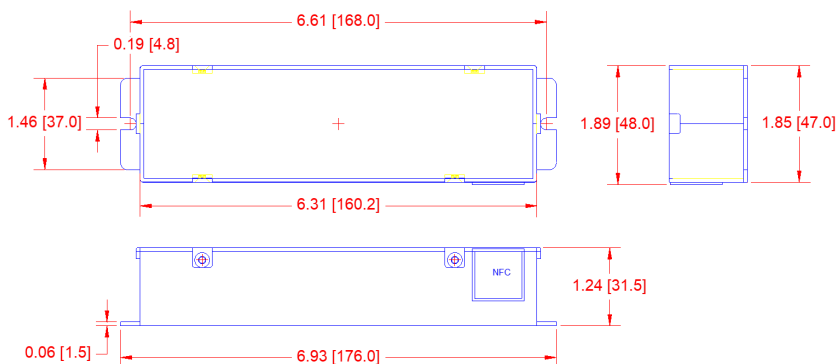
MODEL SELECTION

MODEL NUMBER	DC OUTPUT RANGE (Vf)	MAX OUTPUT CURRENT (mA)	Max output power (W)
QM70-U36-yyyy-XM (Note1)	10 – 36 VDC	2000 Note 2	70
QM70-U52-yyyy-XM (Note1)	30 – 52 VDC	1500 Note 2	70
QM70-U24-XM	24 VDC – Constant Voltage	3000	70
QM70-U48-XM (Note1)	48 VDC – Constant Voltage	1500	70

Note1 : "yyyy" = Output current (programmable via NFC programmer) ; "-XM" = CRS metal case;
Note 2: programming output current at 50mA increments

MECHANICAL SPECIFICATION

CON	COLOR	OUTPUT	AWG	LENGTH
AC IN	Black	Line	18	6.5 [165] ±0.5 [±13]
	White	Neutral	18	
DC OUT	Red	+V	20	
	Black	DND	20	
DIM CONTROL	Purple	Dim+	20	
	Gray	Dim-	20	

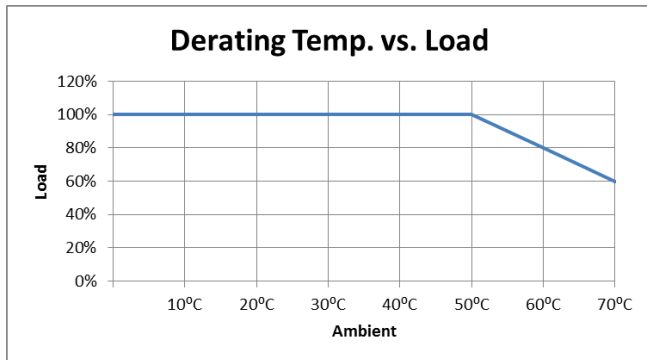


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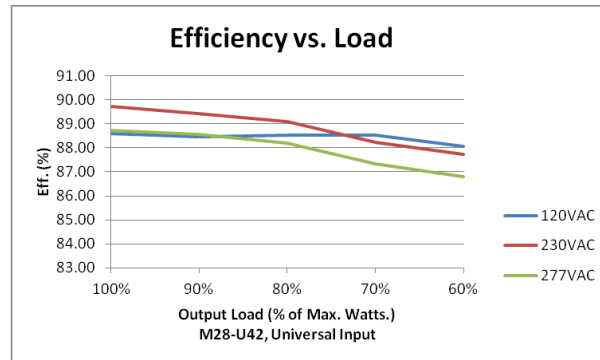
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Project Name:	
Type:	

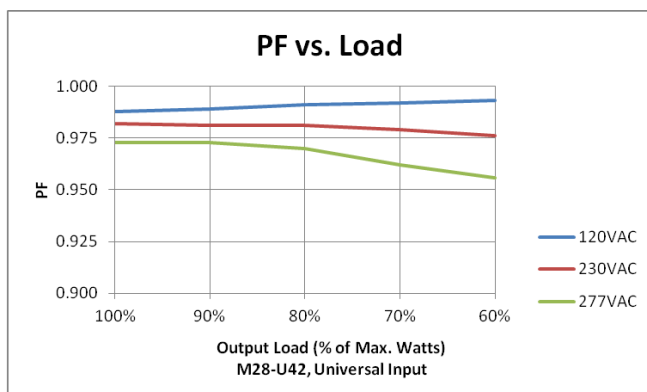
DE-RATING TEMP VS LOAD



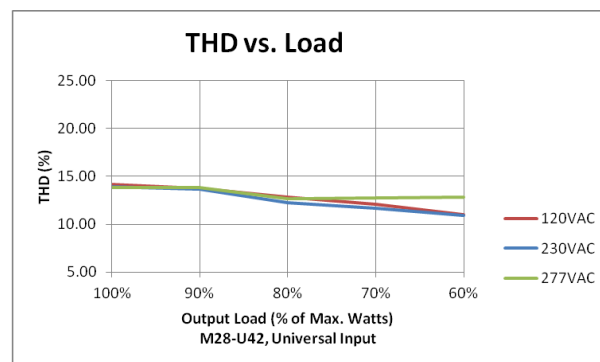
EFFICIENCY VS LOAD 52V MODEL



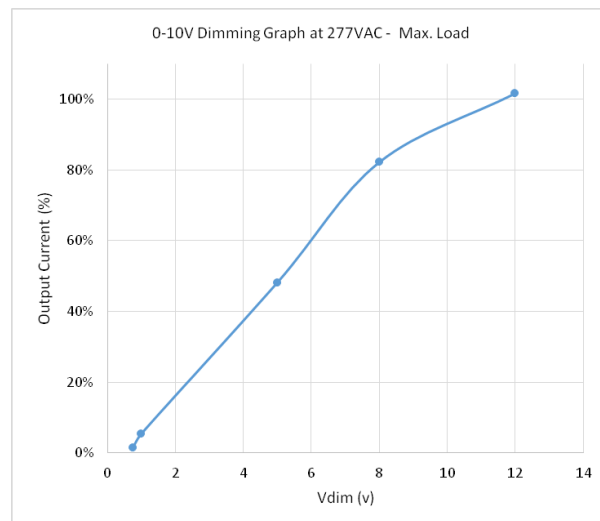
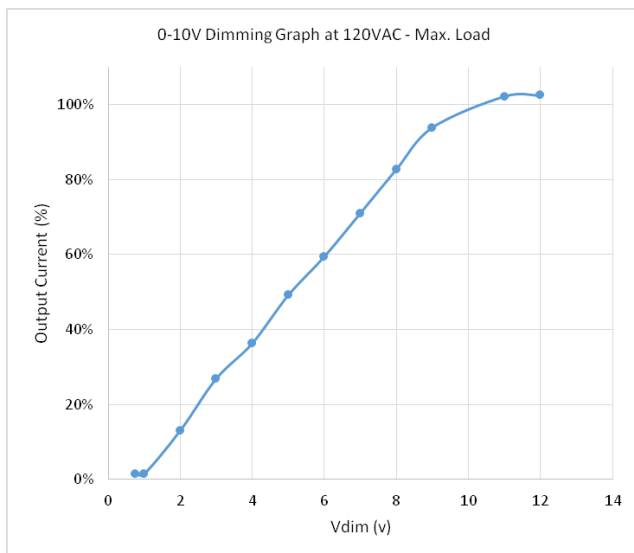
POWER FACTOR VS LOAD



THD VS LOAD



DIMMING PERFORMANCE 0-10V

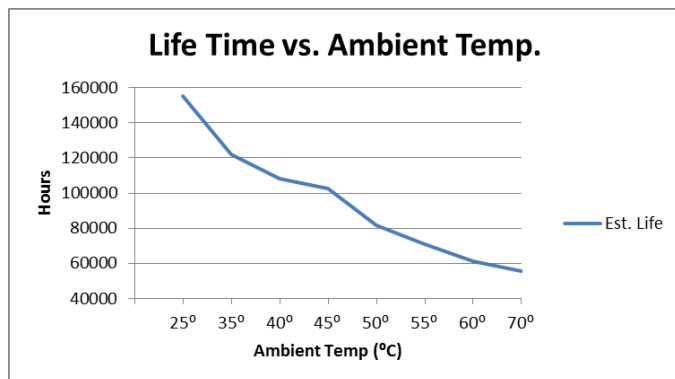


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LIFE TIME VS AMBIENT TEMP



WIRING DIAGRAM

