

Q78 Series

Product Specifications

ANZ#: Z231, August 11, 2015

High Power LED Driver	
Total Power	80 Watts max.
Input Voltages	110 ~ 277VAC
Number of Outputs	One

SPECIAL FEATURES

- Universal Input range from 100VAC~304VAC, 50/60Hz
- Versatile mechanical design maximizes design flexibility.
- Size: 154 x 64 x 40 mm (LxWxH)
- Fully potted, suitable for dry and damp location applications
- 3 in 1 Dimming Control plus “ENABLE” input
- UL8750 and CE compliant
- Wide selection of pre-adjusted C/C outputs (factory setting)

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 50 Hz
MTBF:	>100,000 Hours at full load and 25°C ambient conditions (TELC3 – Telcordia SR-332, Issue 3)



Picture shown above is not to scale

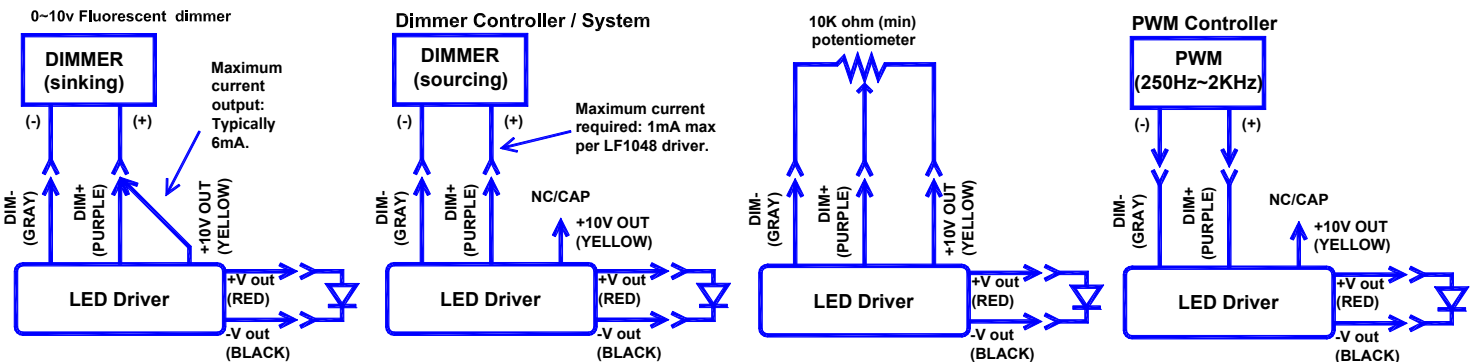
SPECIFICATIONS :

Input Range : 100 ~ 277VAC	Frequency : 47 to 63Hz
Power Factor: > 0.92 at 65% to 100% load, 115VAC or 230VAC	Inrush Current : 10.0 Amps max. at 230VAC, cold start 25°C
Input Current : 1.0 Amps max. at 115VAC	Efficiency : 87% Typical
Output Current Regulation : ±5%	Maximum Power : 100 W
Protection : OCP, SCP, OLP – Auto Recovery	Leakage Current : 50uA typ.
Control : 0-10V dimmer; PWM (250-3KHz); Potentiometer; Enable	Dimension: 154 x 64 x 40 mm (LxWxH)
Hold up time: Half cycle min. at 120VAC and 80% rated load	Regulation Compliance: UL8750 or EN61347, EN55015, EN61547

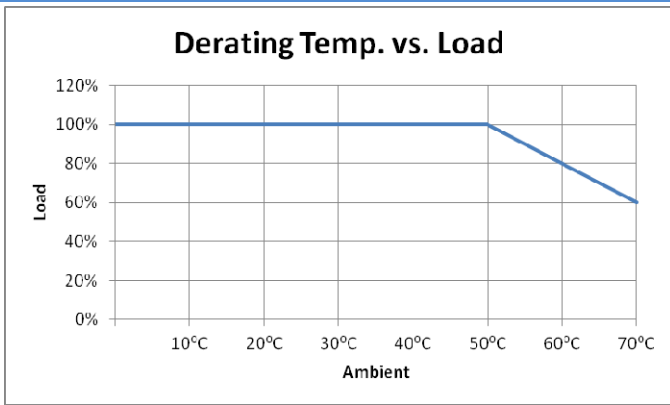
MODEL SELECTION :

Model Number	Constant Current Mode				Remarks
	Current Range A (mA)	Nominal A (mA)	V (DC)	Max. W	
Q78-U24-Cyyyy-XM	4000 ~ 2170	3340	15 ~ 27	80	
Q78-U36-Cyyyy-XM	2670 ~ 1450	2230	21 ~ 39	80	
Q78-U48-Cyyyy-XM	2000 ~ 1080	1670	28 ~ 51	80	
Q78-U54-Cyyyy-XM	1780 ~ 970	1490	33 ~ 57	80	
Q78-U88-Cyyyy-XM	1100 ~ 590	910	71 ~ 110	80	Non Class 2

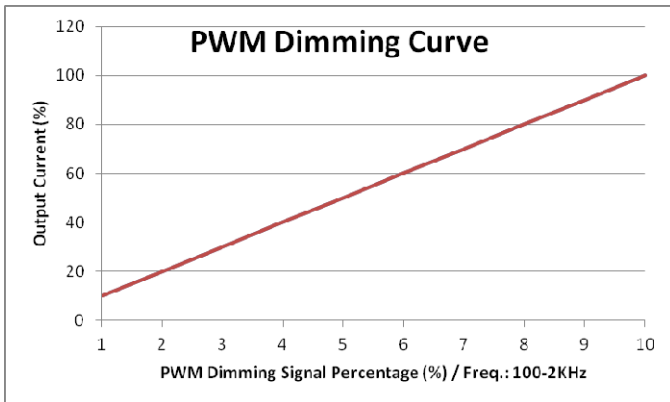
Dimming Wiring Diagram



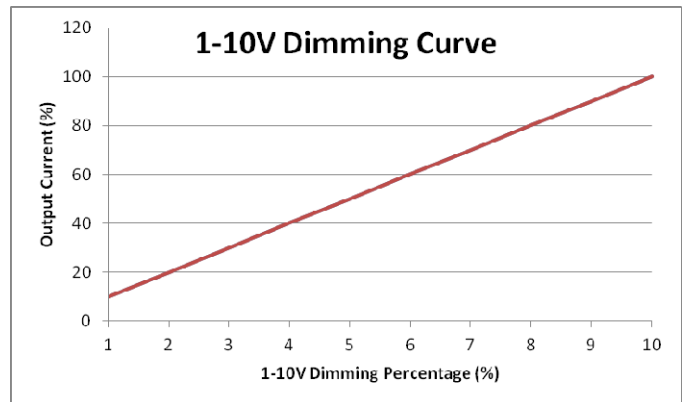
De-rating Temp. vs. Load



PWM Dimming Curve



1-10V Dimming Curve



MECHANICAL SPECIFICATION : Q78-UXX-CYYYY-XM

