96W 4-1 DIMMING DRIVER

POWER SUPPLIES

PROJECT:

PREPARED BY:

DATE:

TYPE:



FEATURE

- Output constant voltage
- Built-in PFC function
- Protections: short circuit/ over voltage/ over heat
- Cooling by free air convection
- Flicker-free
- Class 2, Class P, Type HL, CE, UL, FCC compliant
- Metal housing
- Suitable for dry location & wet location
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- 5 years warranty

PERFORMANCE

• Wattage	96W	• Environment	Dry / Damp / Wet
• Input Voltage	100-277VAC	• Dimming	0-10V /Potentiometer / 10V PWM 4 in 1
• PF	>0.95	• THD	<15%
• Efficiency	91%	• Weight	2.2 lb
• Dimming Range	0-100%	• Dimensions	L 7.7” x W 4” x H 1.58”

ORDERING GUIDE

Model	Dimming	Output Voltage	Wattage	Current	Load Regulation
LB55469	4 in 1	24V	96W	4A	2±

ICES-005 Class P Class 2 TYPE HL SELV RoHS Reach

Information on Spec sheets or other supportive files may be modified at any given time

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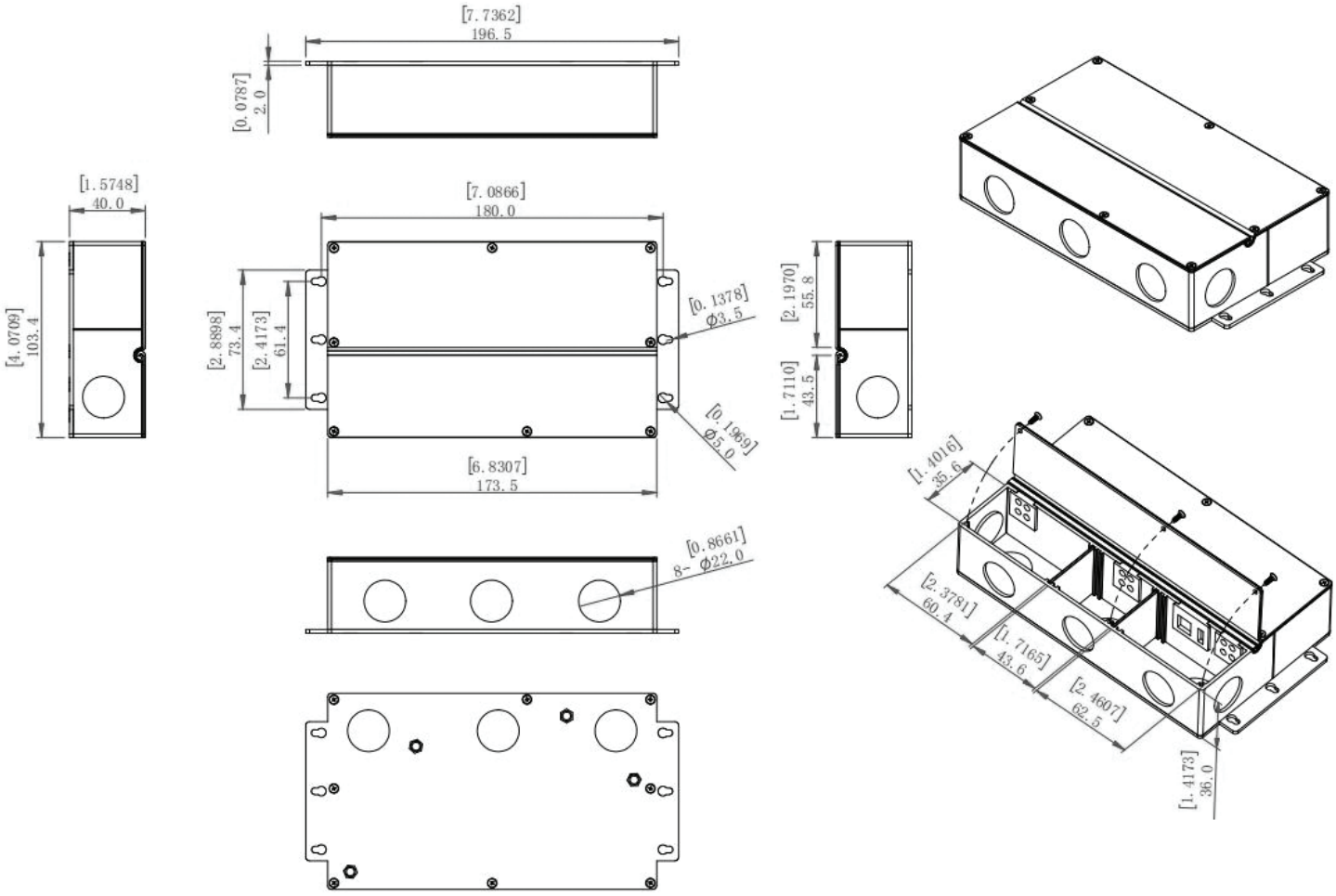
PROJECT:

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DATE:

TYPE:

DIMENSION



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SPECIFICATION CHART

Output	Voltage	24V
	Voltage Tolerance	±2%
	Voltage Regulation	≤0.5%
	Load Regulation	≤0.5%
	Rated Current	4A
	Rate Power	96W
	Voltage Ripple	296mVp-p
	Overshoot voltage	<3% (full load)
	Output volt Adjustment	24-26V
	Output mode selection	The DIP switch at the “ON” position represents the PWM (Pulse -Width Modulation) mode, and at the “1” position represents the VR (Modulation of DC Voltage) mode.
		Switching the output mode requires the power to be cut off for 3 seconds and then powered on again for the mode switching to take effect.
Input	Voltage Range	100-277VAC
	Frequency Range	50/60Hz
	Power Factor	>0.95
	THD (Typ.)	<15%
	Efficiency (Typ.)	≥87@120V ≥91@277V
	AC Current (Max.)	1.1A
	Standby Power	≤0.5W
	Leakage Current	<0.5mA
Protection	Short Circuit	Hiccup mode, can be automatically restored after abnormal removal
	Over Load	105%~110% Constant -Current Mode, automatic recovery after exception
	Over Temperature	When the ambient temperature exceeds 55˚C ±5˚C, the output is turned off.

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SPECIFICATION CHART

Environment	Working Temperature	-40˚C to 60˚C
	Working Humidity	20-95% RH Non-condensing
	Storage Temperature	-40˚C to 80˚C, 10-95%RH
	Temperature coefficient	±0.03%˚C (0-50%˚C)
	Vibration	10 ~ 500Hz, 5G 12 minutes/cycle, X Y Z axis 72 minutes each
Safety & EMC	Safety standards	UL 8750; CAN/CSA-C22.2 No.250.13
	Withstand Voltage	I/P-O/P: 1.88KVAC
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25 / 70% RH
	Surge Immunity Test	AC Power Line:Differential Mode 2KV,Common Mode 4KV
	EMC Immunity	FCC/ICES do not request this test
	EMC Emission	FCC Part 15 Subpart B; ANSI C63.4a-2017; ICES-005 Issue 5

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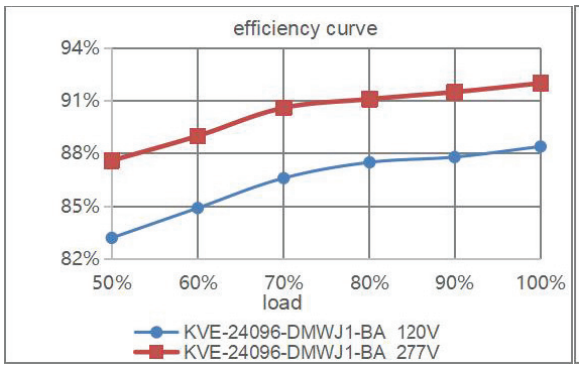
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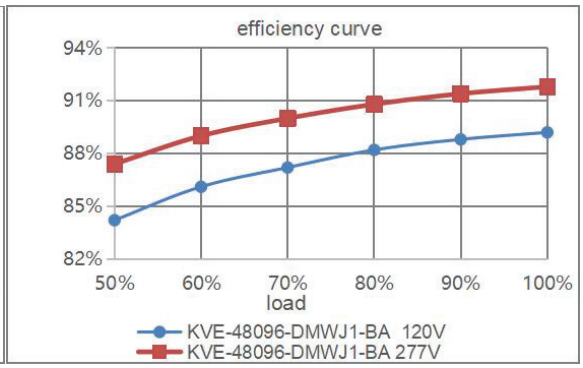
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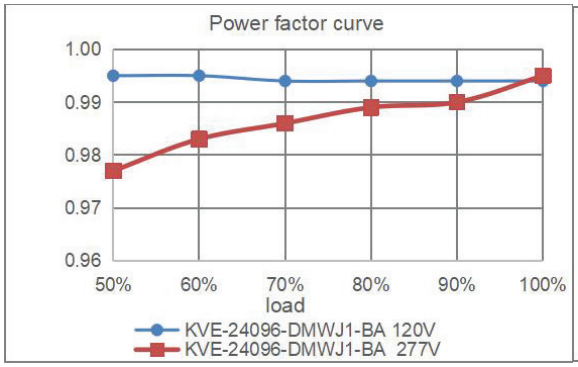
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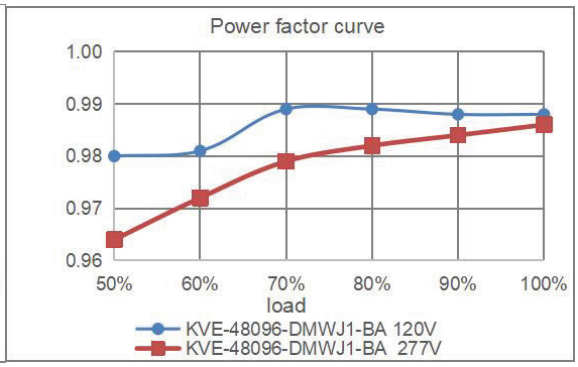
EFFICIENCY CURVE (EFFICIENCY VS OUTPUT)



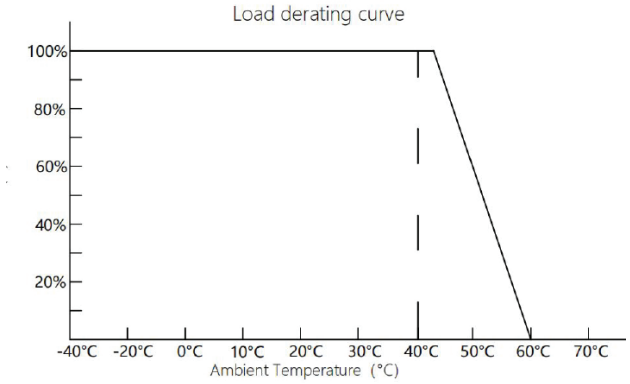


EFFICIENCY CURVE (POWER FACTOR VS OUTPUT





DERATING CURVE (OUTPUT LOAD vs TEMP.)



Instruction

1. To extend their life, please refer to the Derating Curve and derate according to the temperature.

2. The output current of the LED driver should be selected according to the rated current of the lamp and the ambient temperature. Normally, we recommend the power supply to reserve a certain amount of load to extend LED driver's life.

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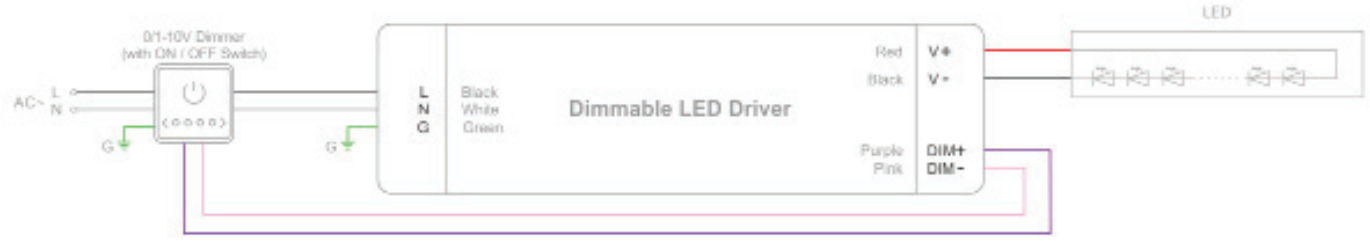
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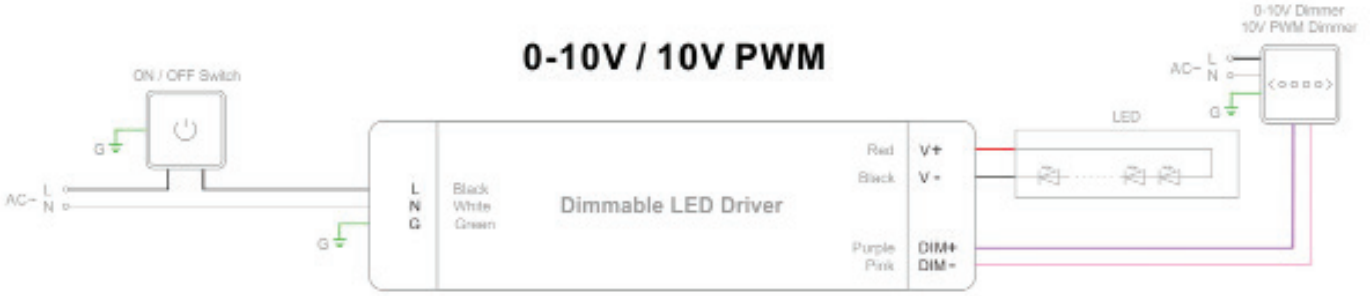
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DIMMING AND CONNECTING DIAGRAM

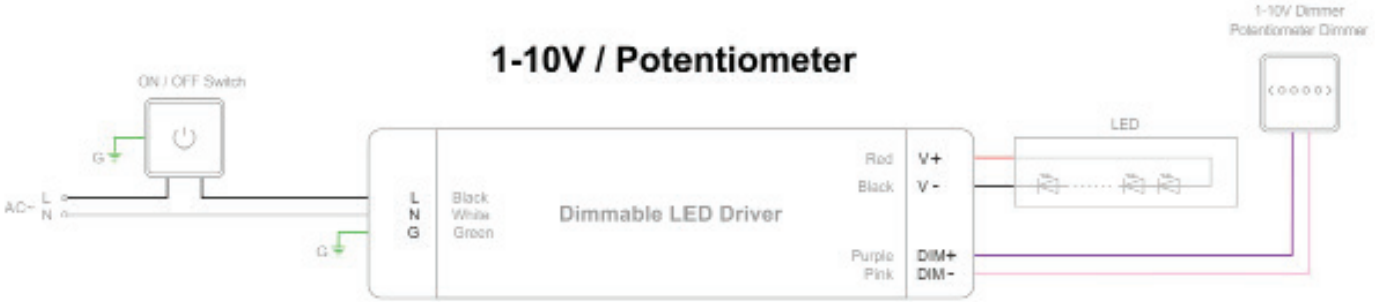
0/1-10V



0-10V / 10V PWM



1-10V / Potentiometer



1. This driver should be installed by qualified and professional person.

2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.

3. Ensure that wiring is correct before test in order to avoid light and power supply damage.

4. If driver Cannot work normally, don't maintain privately.