



600W LED CONSTANT VOLTAGE DRIVER

POWER SUPPLIES

PROJECT:

PREPARED BY:

DATE:

TYPE:



FEATURE

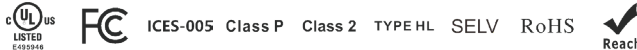
- Output constant voltage
- Built-in PFC function
- Protections: short circuit/ over voltage/ over heat
- Cooling by free air convection
- Flicker-free
- Class 2, Class P, Type HL, CE, UL, FCC compliant
- Metal housing
- Suitable for dry location & wet location
- Compatible with Forward phase, Reverse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

PERFORMANCE

• Wattage	600W	• Environment	Dry / Damp / Wet
• Input Voltage	110-227VAC	• Minimum Load	15%
• PF	>0.95	• THD	<20%
• Efficiency	93%	• Weight	5.7 lb
• Dimming Range	0-100%	• Dimensions	L 11" x W 5.5" x H 1.9"

ORDERING GUIDE

Model	Dimming	Output Voltage	Wattage	Current	Load Regulation
LB55515	0-10V / 1-10V / Potentiometer / 10V PWM	24V	600W	25A	1.5±



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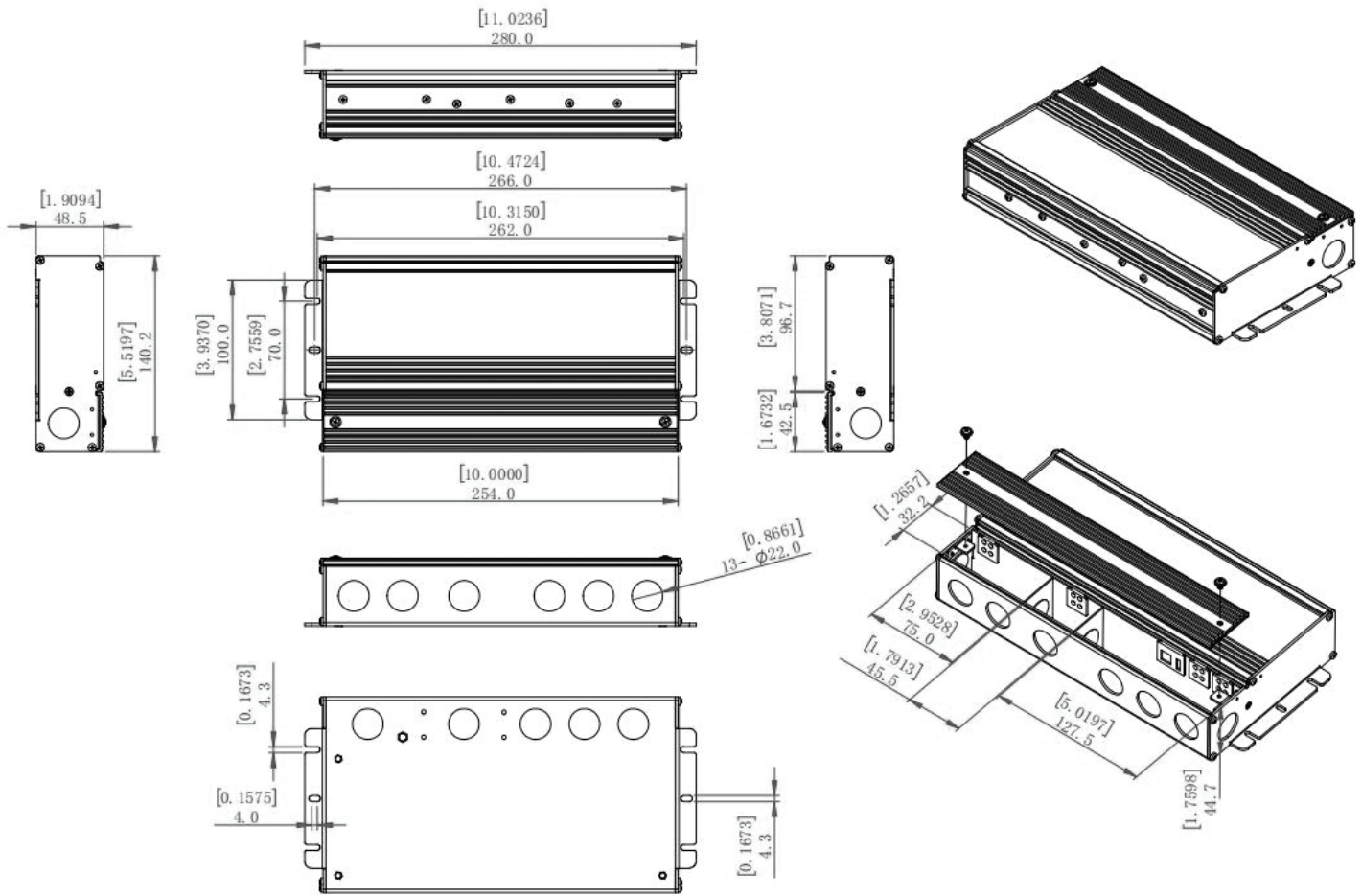
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DIMENSION





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SPECIFICATION CHART

Output	Voltage	24V
	Voltage Tolerance	±1.5%
	Voltage Regulation	≤0.5%
	Load Regulation	≤1%
	Rated Current	25A
	Rate Power	600W
	Output volt Adjustment	24-25.5V
	Output mode selection	<p>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.</p> <p>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.</p>
Input	Voltage Range	100-277VAC
	Frequency Range	50/60Hz
	Power Factor	>0.95
	Efficiency	90.5@120V 893@277V
	AC Current (Typ.)	5.97A
	THD	<20%
	Inrush Current	43A, 810us@50% peak110VAC 76A, 148us@50% peak277VAC
	Leakage Current	<0.5mA
Protection	Short Circuit	Hiccup mode, automatically recovers after an exception is removed.
	Over Load	105%~120% Hiccup mode, automatically recovers after an exception is removed.
	Over Temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling.



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SPECIFICATION CHART

Environment	Working Temperature	-40°C to 40°C
	Working Humidity	20-95% RH Non-condensing
	Storage Temperature	-40°C to 80°C, 10-95%RH Non-condensing
	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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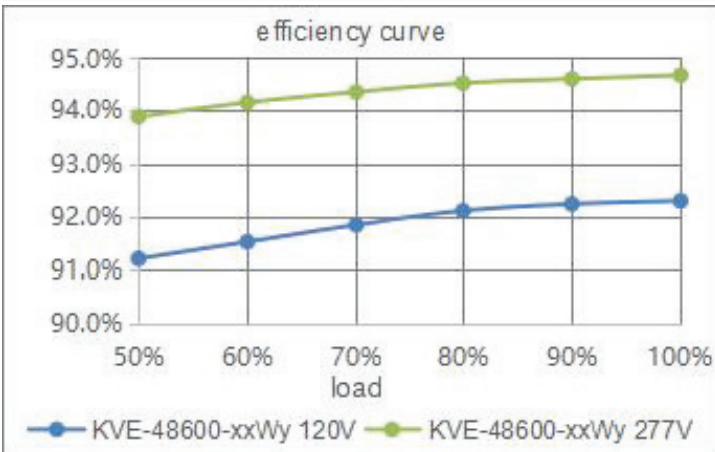
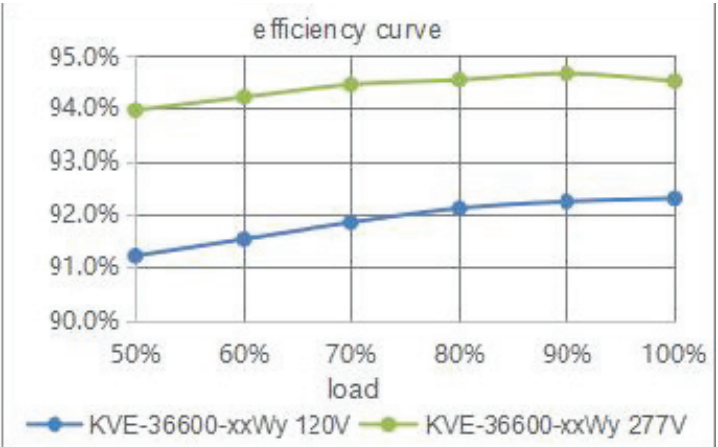
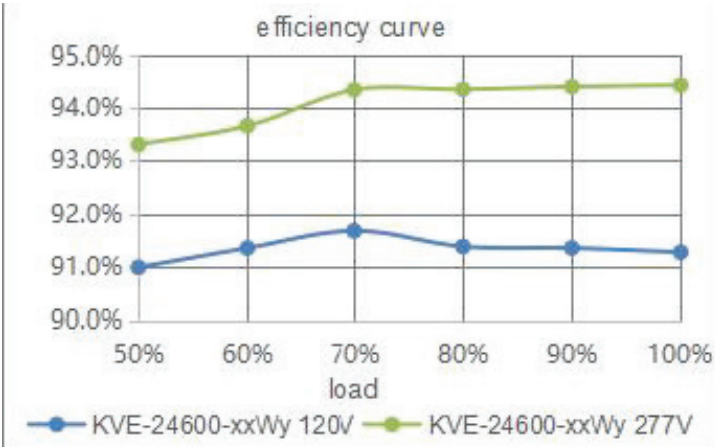
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EFFICIENCY CURVE (EFFICIENCY VS OUTPUT)



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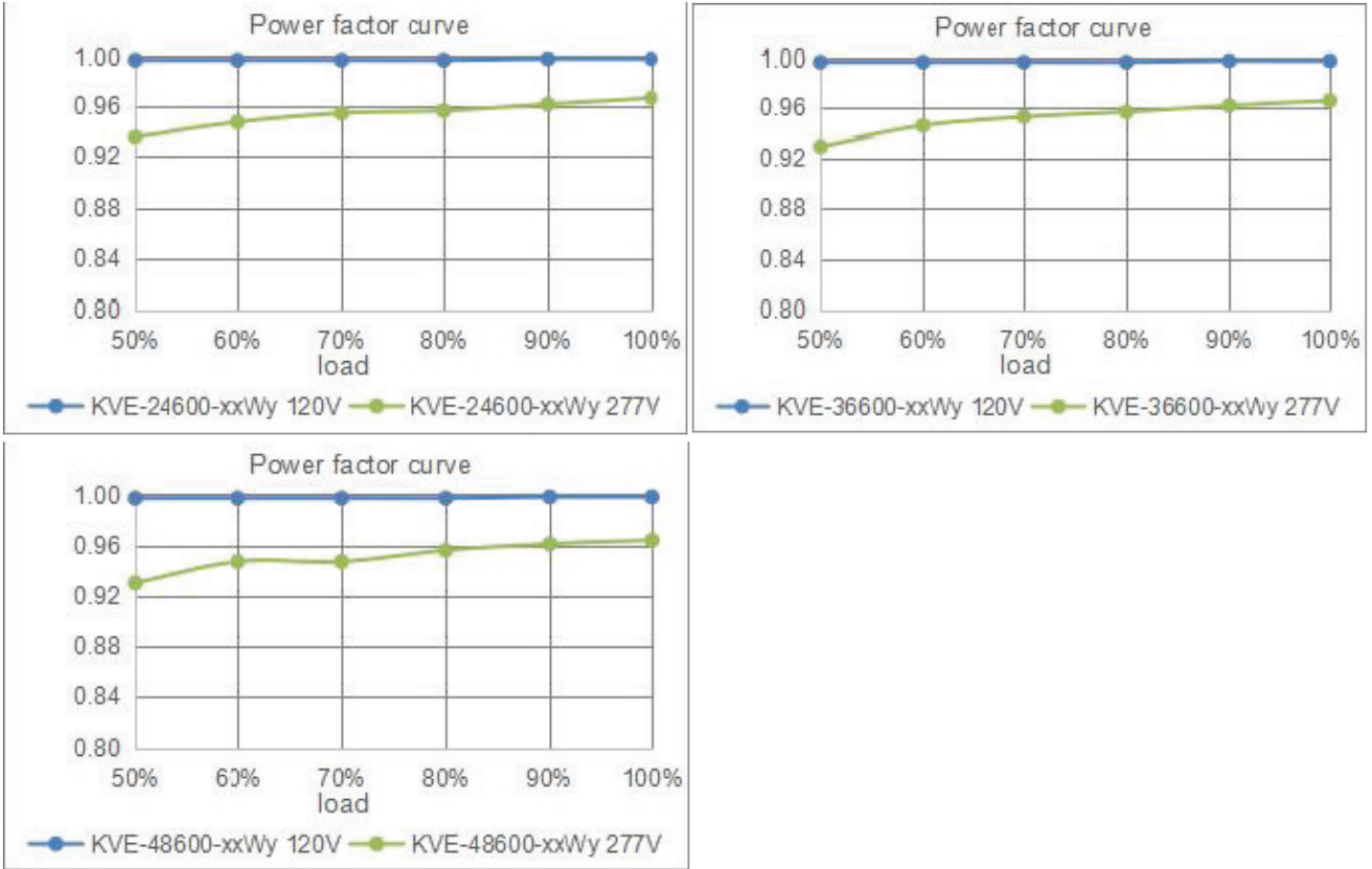
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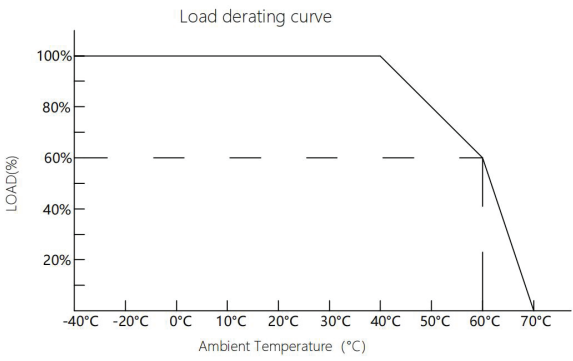
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EFFICIENCY CURVE (POWER FACTOR VS OUTPUT)



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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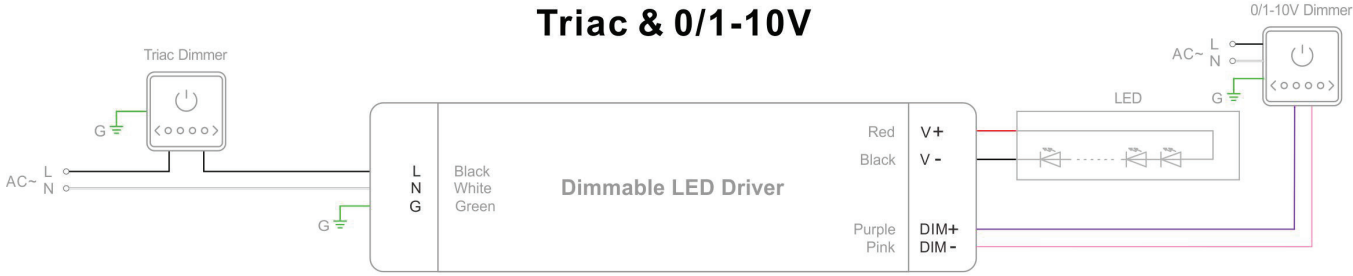
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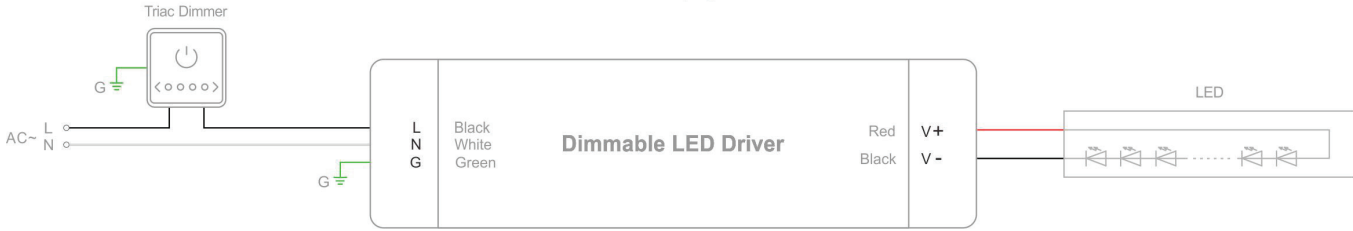
DIMMING AND CONNECTING DIAGRAM

Triac & 0/1-10V



Using two ways of dimming at the same time, you must be assured that LED lighting is up to the max. Brightness then you could operate with the other dimming;

Triac



Using one dimming ---TRIAC/Phase cut dimming

1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with forward phase /leading edge, MLV and Reverse phase /trailing edge, ELV, TRIAC dimmers or light system.
3. Min. loading is about 15%.
4. Please try to use dimmers with power at least 1.5 times as the output power of the driver.

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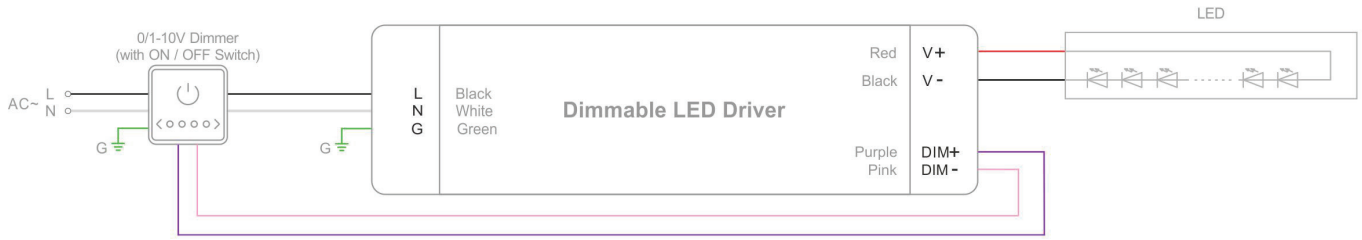
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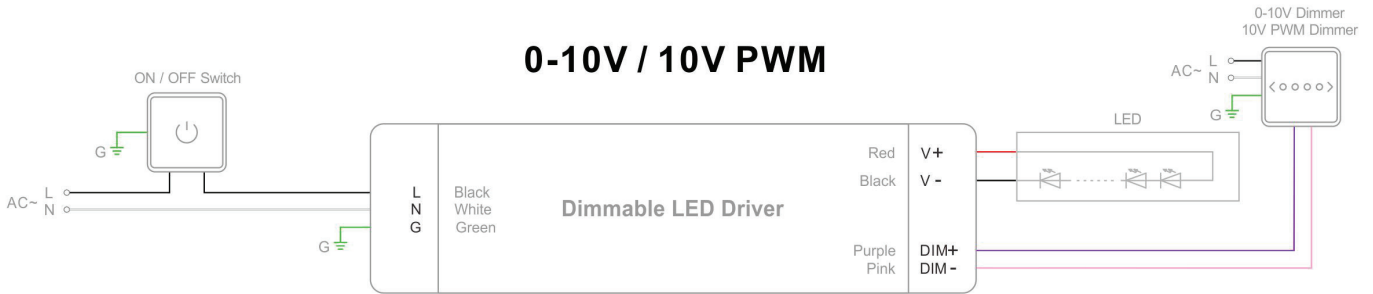
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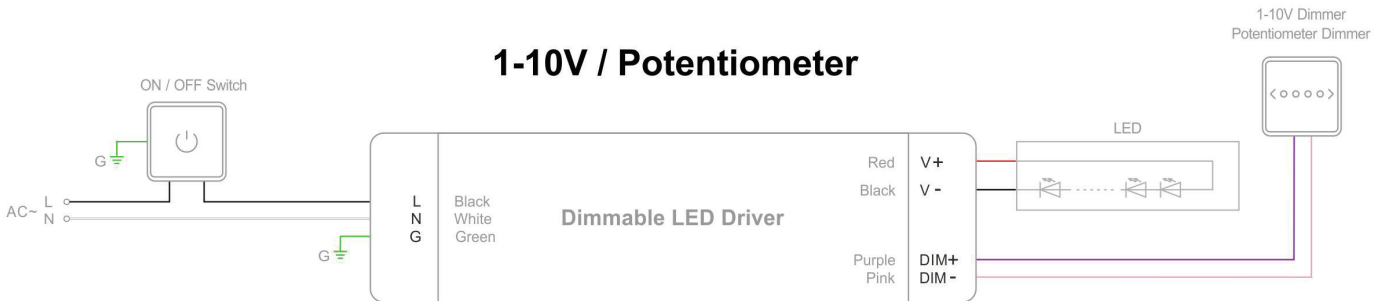
0/1-10V



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.