



120W 5 IN 1  
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
- Work with leading edge & trailing edge triac dimmers
- Class 2, Class P, Type HL, CE, UL, FCC compliant
- PWM output, does not change the color index
- Metal housing
- Suitable for dry location & wet location
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lightings.
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- 5 years warranty

PERFORMANCE

• Wattage	120W	• Environmennt	IP67
• Input Voltage	AC 110-277V	• Minimum Load	20%
• PF	>0.96	• Weight	2.3 lb
• Efficiency	≥92.7%	• Dimensions	L 7.4" x W 3.8" x H 1.68"
• Dimming Range	0-100%		

ORDERING GUIDE

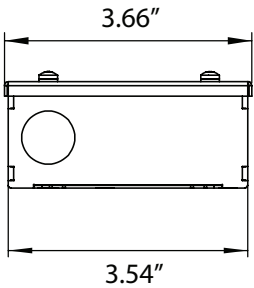
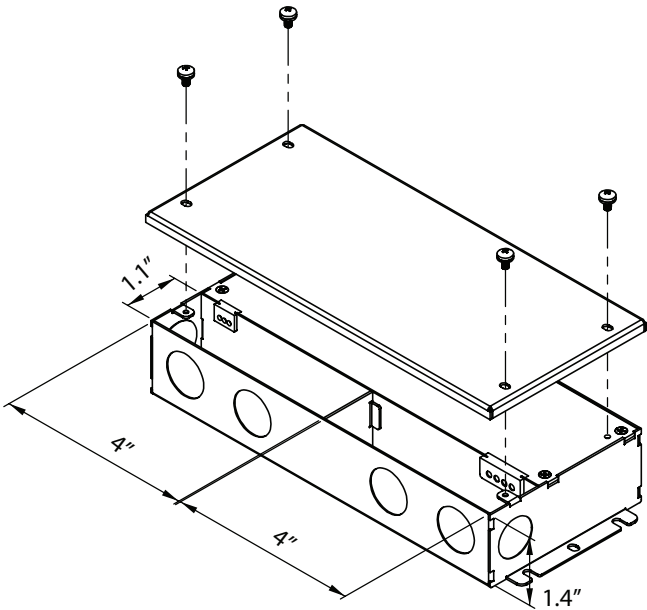
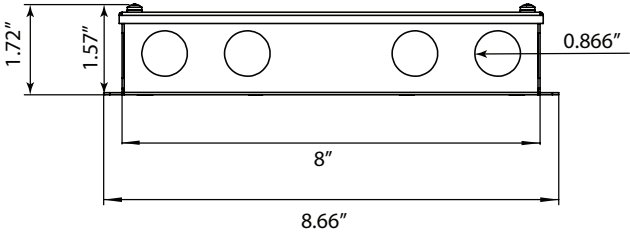
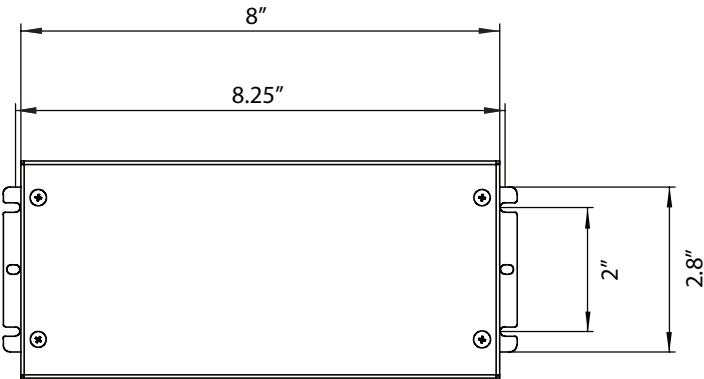
Model	Dimming	Output Voltage	Wattage	Load Regulation
LB55500	Triac / 0-10V	24V	120W	3±



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**DIMENSION**





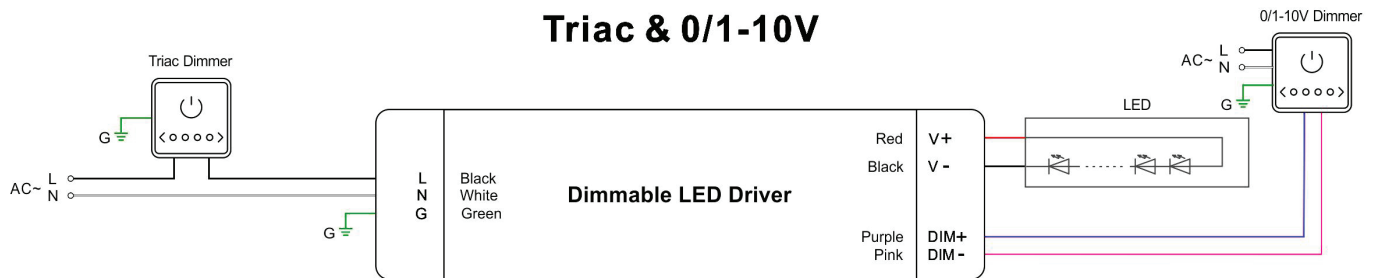
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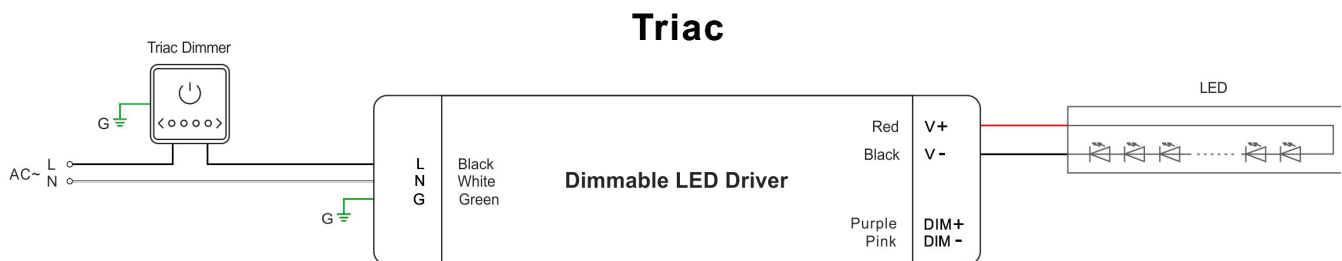
**SPECIFICATION CHART**

Output	Voltage	24V
	Voltage Tolerance	±3%
	Voltage Regulation	≤0.5%
	Load Regulation	≤1%
	Rated Current	5A
	Rate Power	120W
	Voltage Ripple	296mVp-p
	Overshoot Voltage	<3% full load / <4% no load
	Output Voltage Adjustment	24-26V
Input	Voltage Range	110-277V
	Frequency Range	47-63Hz
	Power Factor (Typ.)	>0.96@277VAC
	THD (Typ.)	<15%@277VAC
	Full Load Efficiency (Typ.)	≥92.7%@277VAC
	AC Current (Max.)	≤0.52A@277VAC
	Standby Power	≤0.5W
	Inrush Current (Typ.)	118A@50%Ipeak 452us @277VAC
	Leakage Current	<0.5mA
Protection	Short Circuit	Hiccup mode, can be automatically restored after abnormal removal
	Over Load	≥120%, Constant - Current Mode, automatic recovery after exception
	Over Temperature	When the ambient temperature exceeds 55°C ±5°C, the output is turn off
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
	Temperature coefficient	±0.03%°C (0-50°C)
	Vibration	10-500Hz, 5G 12 minutes/cycles, X Y Z axis 72 minute each

## DIMMING AND CONNECTING DIAGRAM



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



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 20%
4. Please try to use dimmers with power at least 1.5 times as the output power of the driver.

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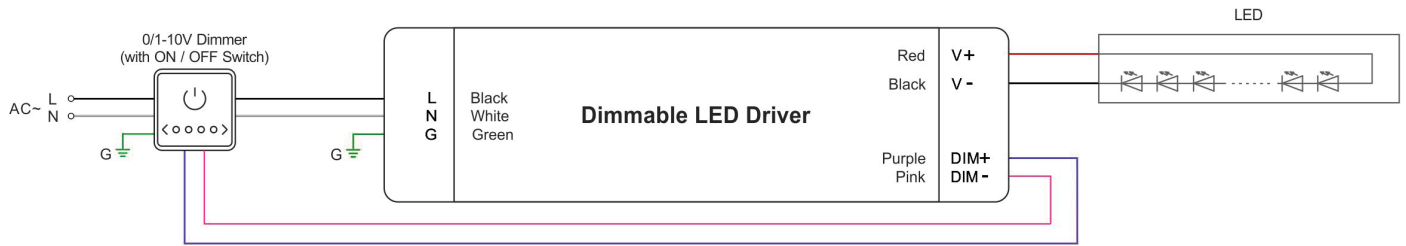
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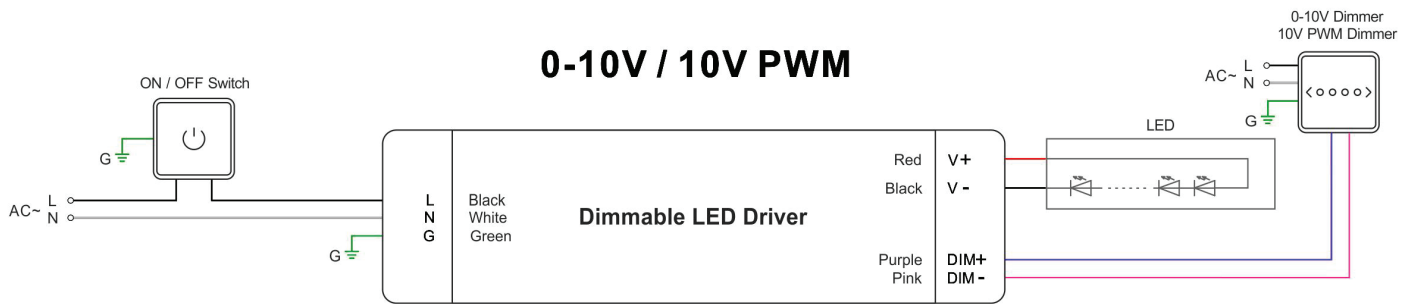
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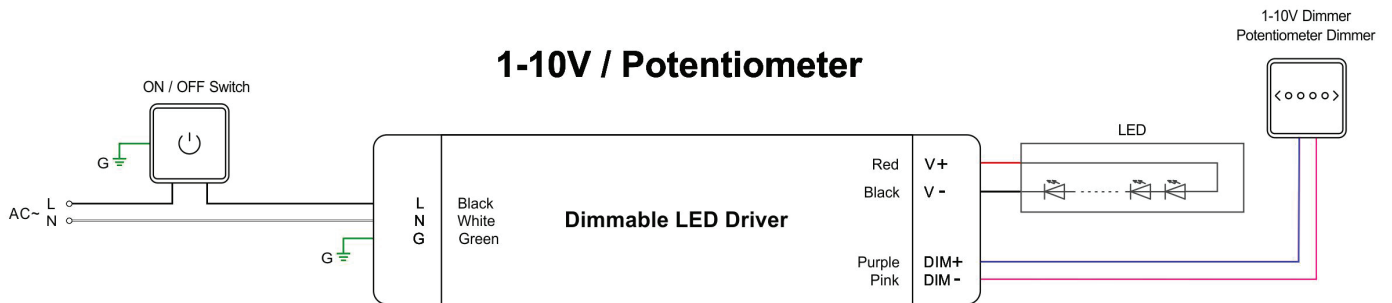
## 0/1-10V



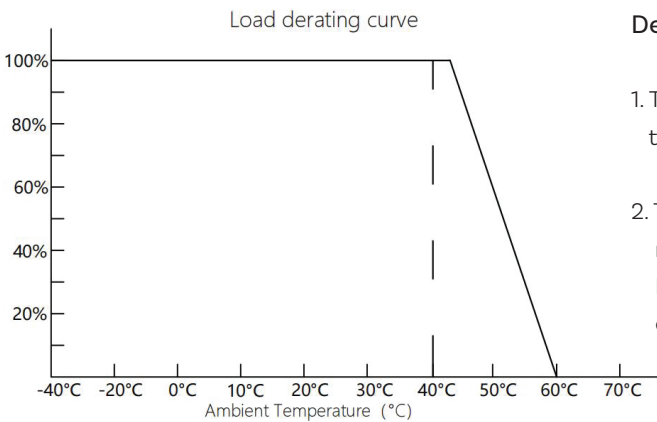
## 0-10V / 10V PWM



## 1-10V / Potentiometer



Using one dimming ---0-10/ 1-10V/ 10V PWM/ Potentiometer dimming



### Derating Curve (output load vs TEMP.)

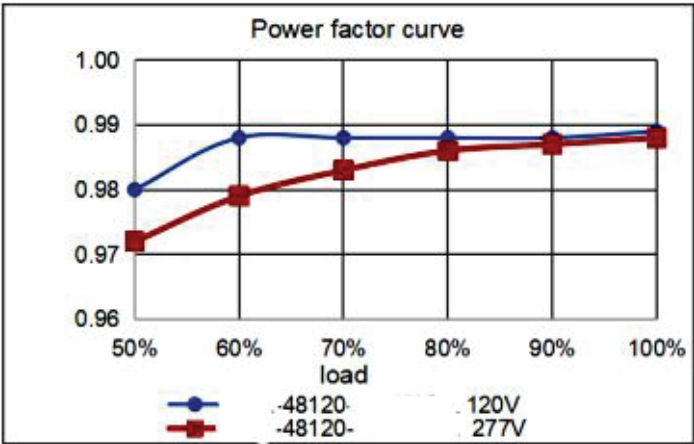
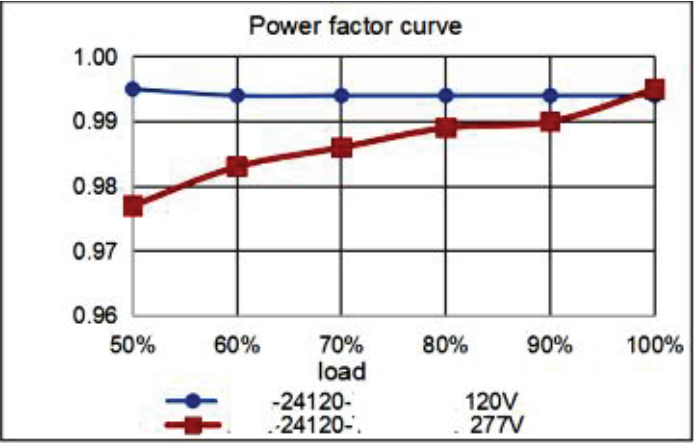
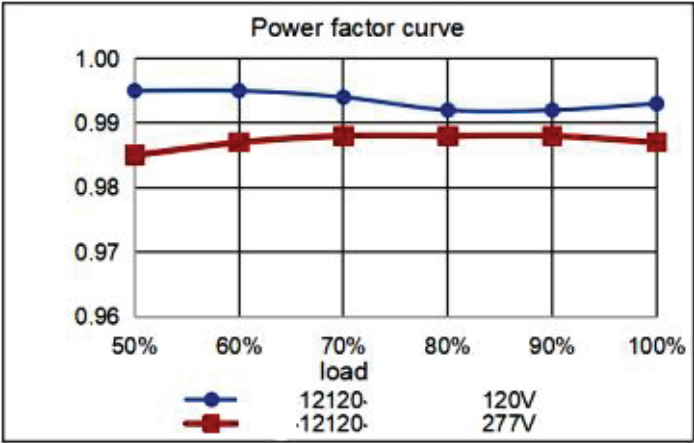
1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. The output current of the LED driver should be selected according to the rated current of the lamp and the ambient temperature. Normally, we recommend the power supply to reserve a certain amount of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



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POWER FACTOR CURVE

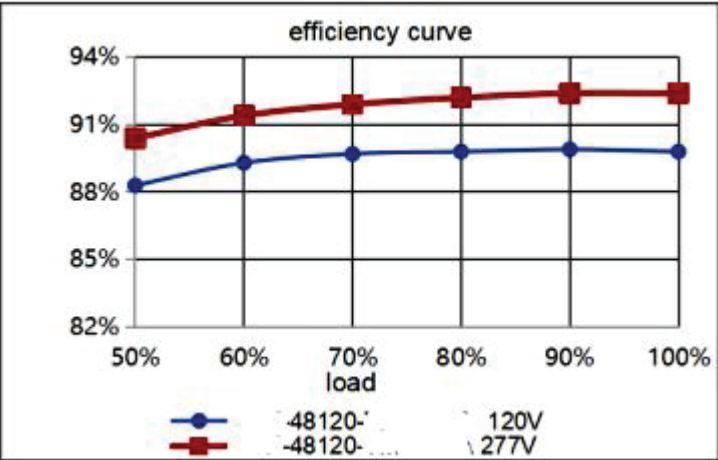
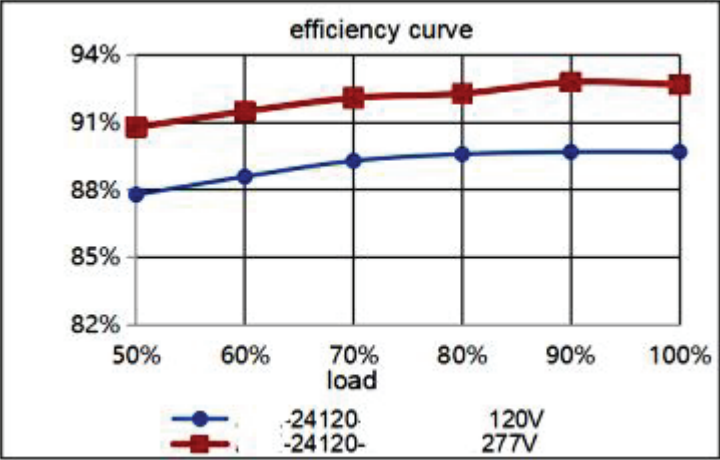
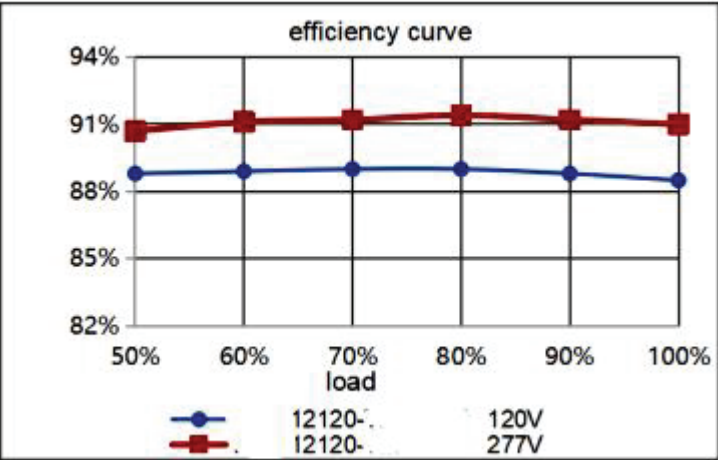




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EFFICIENCY CURVE





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TRIAC / 0-10V Dimmers compatibility test list				
Brand	Model	LB55502	LB55501	LB55500
EATON	DLC03P	YES	2.70%	3.40%
	DUL06P-C2	YES	0.57%	3%
LEGRAND	LSCL450	YES	YES	YES
	RH703PTUW	NO	NO	NO
	RHCL453PTCCCV6	1.80%	2.30%	1.40%
LEVITON	6672-1LW	YES	YES	YES
	6674-P0W	YES	1.1	3.50%
	DDE06-BLZ	YES	YES	YES
	DDMX1-BLZ	YES	YES	YES
	DH6HD (D26HD)	YES	YES	YES
	DSL06-1LZ	YES	1.50%	3.40%
	IP710-DLZ(0-10V)	NO	NO	NO
	IPE04-1LZ	3.40%	7.40%	NO
	IPL06-10Z	1.20%	1.30%	3.20%
	RDL06-TW	2%	2%	3.80%
	RNL06-10Z	YES	YES	YES
	TBL03-10W	YES	YES	YES
	VPI06	YES	0.30%	YES
	PNL06-TW	YES	YES	YES
	6672-3PW	YES	YES	YES
LUTRON	AYCL-153P-WH	YES	0.61%	YES
	CTCL-150-WH	YES	YES	YES
	DVCL-253P-WH	YES	0.90%	0.96%
	DVELV-300P-WH	YES	0.48%	1.60%
	DVRP-253P	YES	0.60%	2.40%
	DVTW-WH(0-10V)	1.60%	1.70%	1.20%
	DVDCL-153P	YES	YES	YES
	MA-600-WH	NO	NO	NO
	MACL-153M-WH	YES	0.80%	3.60%
	MRF2S-6CL-WH	YES	1.10%	3.30%
	MSCL-OP153M	YES	0.87%	3%
	MS-Z101-WH(0-10V)	1.40%	1.40%	1.30%
	NTCL-250	YES	YES	YES
	PD-10NXD	YES	0.58%	2.50%
	PD-5NE	YES	1.80%	3.10%
	PD-6WCL-WH	YES	1.10%	3.90%
	RMJS-8T-DV-B (0-10V)	0.64%	0.87%	0.30%
	SCL-153P-WH	YES	YES	YES
	DVRF-6L	YES	1.20%	3.90%
	S600P	YES	YES	0.31%
	CTCL-153PDH-LA	YES	YES	YES