



# LKAD062D



**Class2**

**SELV**

**TYPE HL**



**RoHS**



## Features

<b>Output:</b>	Constant Current
<b>Range:</b>	700mA-1200mA@20-42V (fixed & preset by factory)
<b>PFC design:</b>	Built-in active PFC function
<b>Efficiency:</b>	Up to 84%
<b>Protections:</b>	Short circuit/ over load/ over temperature
<b>Heat dissipation:</b>	Cooling by free air convection
<b>Waterproof Performance:</b>	For dry, damp, wet locations
<b>Dimming function:</b>	Phase dimming: work with forward phase, MLV and Reverse phase, ELV, TRIAC dimmers.
<b>Dimming Range:</b>	0-100%
<b>Application:</b>	Suitable for LED lighting and moving sign applications
<b>Warranty:</b>	5 years warranty



## Specification

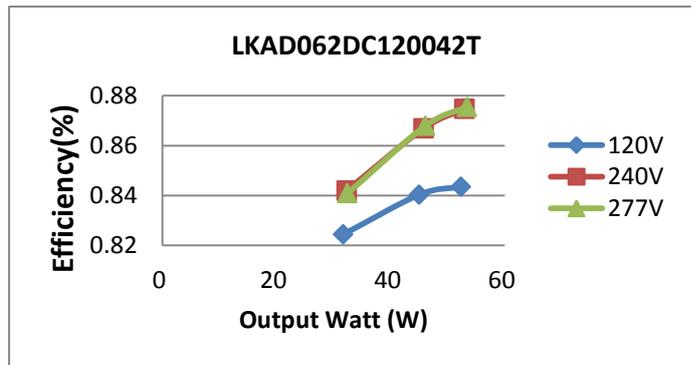
<b>Model:</b>		<b>LKAD062DC120042T</b>	
<b>Certificate</b>		CUL,CE,Rosh,	
<b>Output</b>	DC Voltage	20-42V	
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Rated current	1200mA	
	Rated power	50.4W	
	Load Regulation	±2%	
<b>Input</b>	Voltage Range	120-277VAC	
	Frequency Range	50/60hz	
	Power Factor(Typ. ) @full load	0.99@120VAC	
	THD(Typ. ) @ full load	<15%@120VAC & 277VAC	
	Efficiency(Typ.) @ full load	≥84.4%@120VAC	
	AC Current (Max.)	0.58A	
	Inrush Current (Typ.)	15A, 50%, 1.4ms @120VAC	65A, 50%, 1.4ms @277VAC
	Leakage current	<0.5mA	
<b>Protection</b>	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed	
	Over Load	≤120% constant current limiting, auto-recovery after fault condition removed	
	Over temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling	
<b>Environment</b>	Working TEMP.	-40~+60°C (see below derating curve)	
	Working Humidity	20 - 95%RH non-condensing	
	Storage TEM.,Humidity	-40 - +80°C,10 - 95% RH non-condensing	
	TEMP.coefficient	±0.03%/°C(0 - 50°C)	
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X,Y,Z axes	
<b>Safety &amp; EMC</b>	Safety standards	UL8750 , CAN/CSA-C22.2 No.250.13	
	Withstand voltage	I/P-O/P: 1.8KVAC I/P-FG: 1.8KVAC O/P-FG1.8KVAC	
	Isolation resistance	I/P-O/P: 100MΩ/ 500VDC/ 25°C/ 70% RH	
	EMC Emission	FCC 47 CFR Part 15 ,Subpart B	
<b>Others</b>	Net Weight		
	Dimension	155*43*25.5mm(Dia * H)	
	Packing	Cartons	
<b>Notes</b>	<p>1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Tolerance: includes set up tolerance and load regulation.</p>		



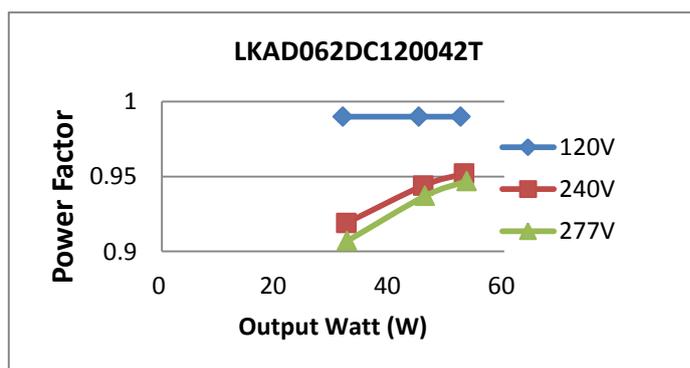
### Electrical Characteristics

Model: LKAD062DC120042T							
Input voltage ( Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage ( Vdc)	Output Current ( MA)	Output Power (W)	Efficiency (%)
120V	537.20	62.04	0.990	42	1246	52.33	84.4%
	469.70	53.55	0.990	36	1250	45.00	84.0%
	340.20	38.45	0.990	25	1268	31.70	82.4%
240V	265.60	60.55	0.952	42	1261	52.96	87.5%
	233.80	52.82	0.944	36	1272	45.79	86.7%
	174.30	38.36	0.919	25	1292	32.30	84.2%
277V	232.60	60.97	0.947	42	1271	53.38	87.6%
	204.90	53.09	0.937	36	1280	46.08	86.8%
	153.70	38.59	0.907	25	1298	32.45	84.1%

### Efficiency Curve (efficiency vs ouput watt)



### Power Factor Curve

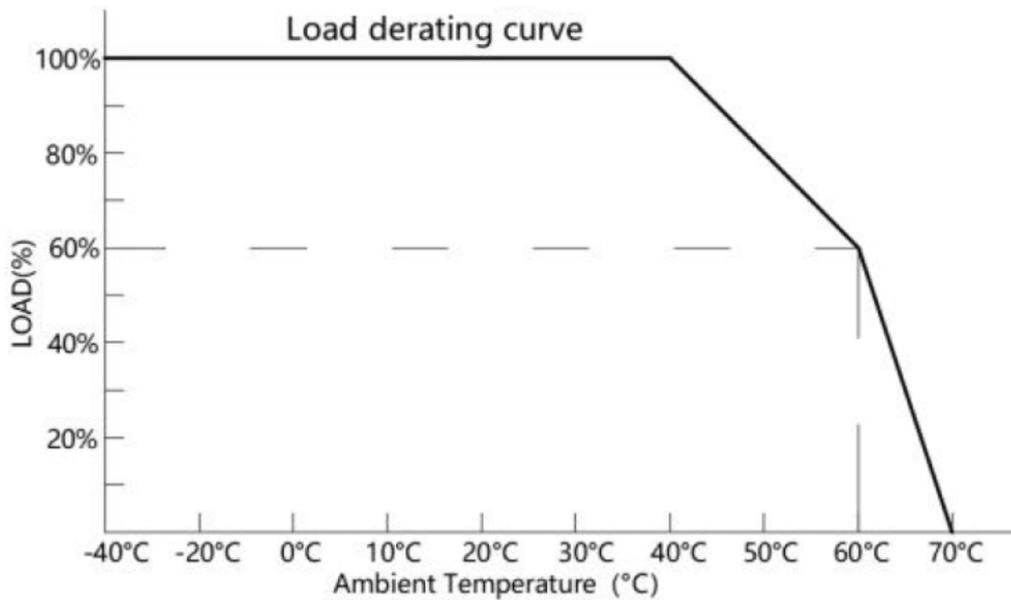




### Compatibility Testing for Phase Dimmer

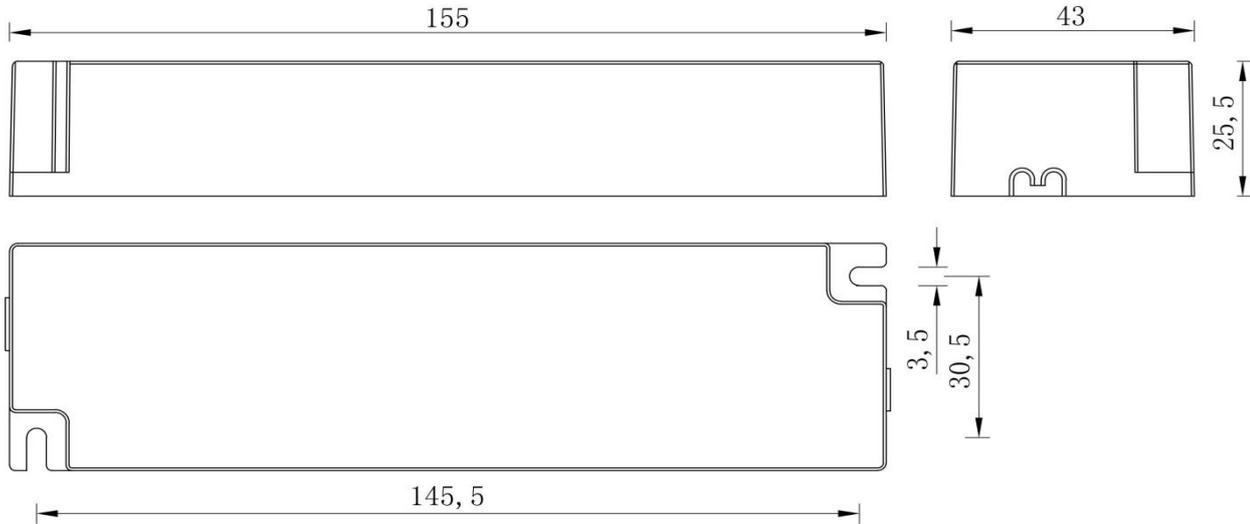
Test by US Standard 120V dimmers				
Model: LKAD062DC120042T				
NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	LUTRON TTCL-100	1.97	52	3.81%
2	TLC-005	0.29	53	0.56%
3	TLC-0003	1.34	52	2.57%
4	LC211	0.55	52	1.05%
5	LUTRON SCL-153P	0.38	51	0.75%
6	TLC-0004	1.30	53	2.47%
7	LISTED SB-1	0.00	53	0.00%
8	Panssonic 120V	0.88	54	1.62%

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

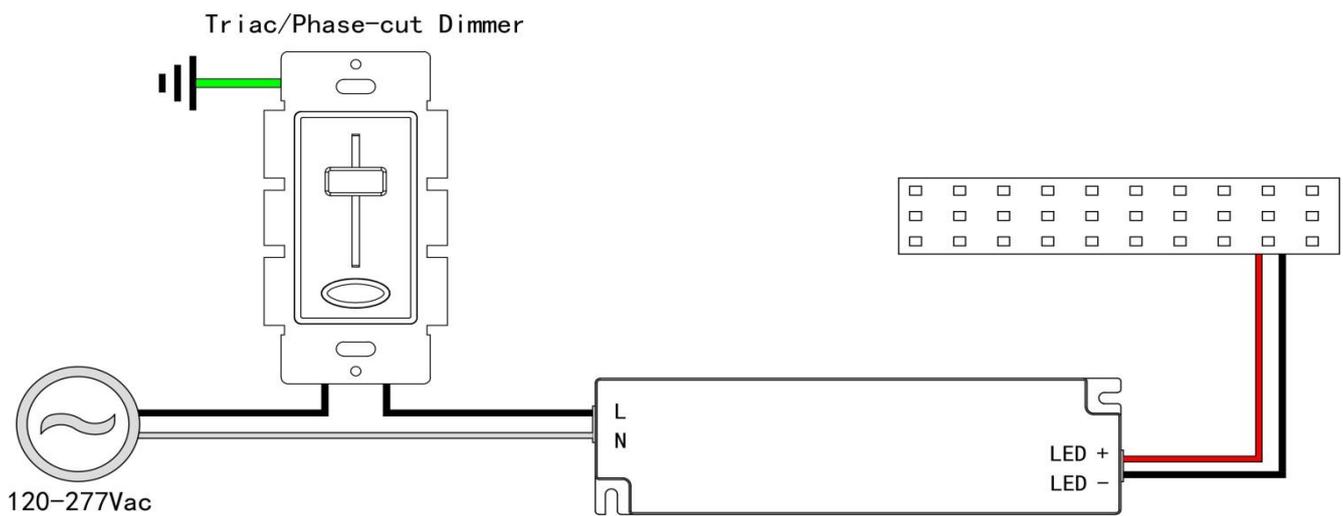




## Installation Dimension



## Wiring Diagram



1. Input cable 2\*18AWG, Black cable to L, and White cable to N of Mains AC.
2. Output cable 2\*18AWG, Red cable (+) to LED Positive side (+) , Black cable (-) to LED Negative side (-).
3. Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged



## Dimming Operation

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- 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.
- Working with forward phase, MLV and Reverse phase , ELV, TRIAC dimmers or light system.
- Min. loading is about 10%
- Please try to use dimmers with power at least 1.5 times as the output power of the driver.

## Notices

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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.

**\*If still have any questions, please contact us directly\***