LKAD025D



Class2 SELV TYPE HL (RoHS



Features

Output: Constant Current

Range: 400-700m@18-40V (fixed & preset by factory)

PFC design: Built-in active PFC function

Efficiency: Up to 84%

Protections: Short circuit/ over load/ over temperature

Heat dissipation: Cooling by free air convection

Waterproof Performance: For dry, damp, wet locations

Dimming function:Phase dimming: work with forward phase, MLV and Reverse phase, ELV,

TRIAC dimmers.

Dimming Range: 0-100%

Application: Suitable for LED lighting and moving sign applications

Warranty: 5 years warranty

Specification

Model:		LKAD025DC060040	LKAD025DC070040				
Certificate		CUL,CE,Rosh,					
	DC Voltage	18-40V	18-40V				
	Voltage Tolerance	±0.5V					
Output	Voltage Regulation	±0.5%					
	Rated current	600mA	700mA				
	Rated power	28W					
	Load Regulation	±2% ±1%					
	Voltage Range	100-132VAC					
	Frequency Range	50/60hz					
	Power Factor(Typ.) @full load	0.98@90VAC	0.99@120VAC				
Innut	THD(Typ.) @ full load	<15%@120VAC & 277VAC					
Input	Efficiency(Typ.) @ full load	≥78.7%@90VAC	≥83%@120VAC				
	AC Current (Max.)	0.58A					
	Inrush Current (Typ.)	15A, 50%, 1.4ms @120VAC					
	Leakage current	<0.5mA					
	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed					
Protection	Over Load	≤120% constant current limiting, auto-recovery after fault condition removed					
	Over temperature	100℃±10℃ shut down o/p voltage, automatically recover after cooling					
	Working TEMP.	-40~+60°C (see below derating curve)					
	Working Humidity	20 - 95%RH non-condensing					
Environment	Storage TEM.,Humidity	-40 - +80 ℃,10 - 95% RH non-condensing					
	TEMP.coefficient	±0.03%/℃(0 - 50℃)					
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X,Y,Z axes					
	Safety standards	UL8750 , CAN/CSA-C22.2 No.250.13					
Safety & EMC	Withstand voltage	I/P-O/P: 1.8KVAC I/P-FG: 1.8KVAC O/P-FG1.8KVAC					
Salety & LIVIC	Isolation resistance	I/P-O/P: 100MΩ/ 500VDC/ 25°C/ 70% RH					
	EMC Emission	FCC 47 CFR Part 15 ,Subpart B					
Others	Net Weight						
	Dimension	φ75*25mm(Dia * H)					
	Packing	Cartons					
Notes		ters NOT specially mentioned are measured at 120VAC input, rated load and 25 °C of ambient temperature.					

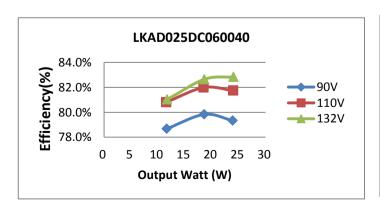


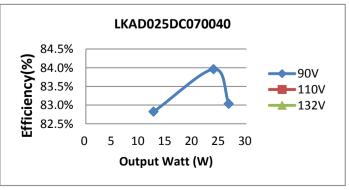
Electrical Characteristics

Model: LKAD025DC060040							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
90	168.00	14.78	0.98	18.00	646	11.63	78.7%
	262.80	23.30	0.99	30.00	620	18.60	79.8%
	338.50	30.10	0.99	40.00	597	23.88	79.3%
110	134.60	14.30	0.97	18.00	642	11.56	80.8%
	209.40	22.54	0.99	30.00	616	18.48	82.0%
	272.00	29.31	0.99	40.00	599	23.96	81.7%
130	113.70	14.44	0.96	18.00	650	11.70	81.0%
	175.00	22.54	0.98	30.00	621	18.63	82.7%
	224.10	29.02	0.99	40.00	601	24.04	82.8%

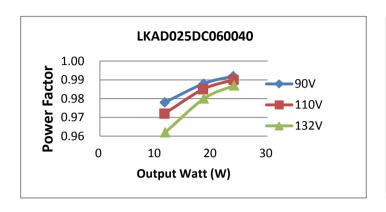
Model: LKAD025DC070040							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
	268.70	32.18	0.99	40.00	668	26.72	83.0%
120	237.30	28.43	0.99	35.00	682	23.87	84.0%
	130.10	15.30	0.98	18.00	704	12.67	82.8%

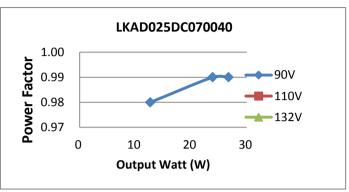
Efficiency Curve (efficiency vs ouput watt)





Power Factor Curve

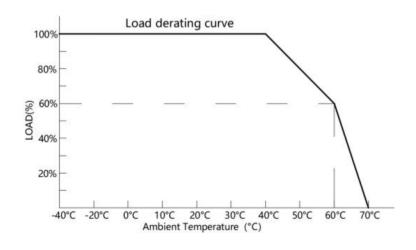




Compatibility Testing for Phase Dimmer

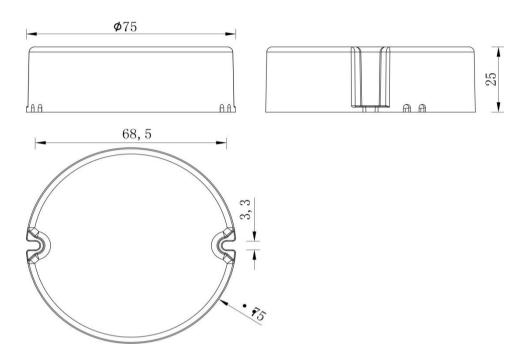
Test by US Standard 120V dimmers							
Mode	l: LKAD025DC07004						
NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)			
1	LEVITON 666 150W	0.00	29.52	0.00%			
2	TCL-004 800W	1.75	29.52	5.93%			
3	LC211 300W	0.00	29.52	0.00%			
4	TLC-003 300W	1.75	29.52	5.93%			
5	LUTRON-TTCL-100 250W	2.45	29.52	8.30%			
6	DINNER SB-1 600W	0.00	29.52	0.00%			

Derating Curve (output load vs TEMP.)

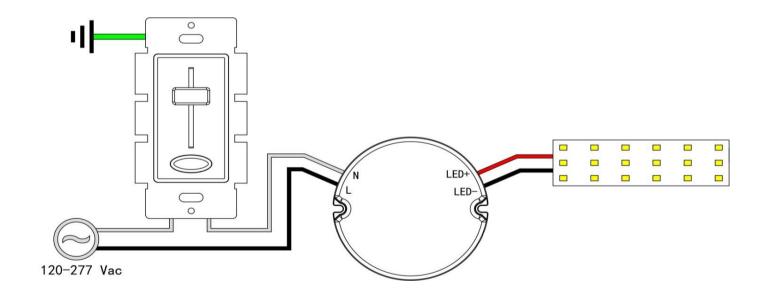




Installation Dimension



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

Dimming Operation

- 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

- 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