



LKAD009D-C



Class P SELV TYPE HL CE RoHS



Features

- Output:** Constant Current
- Range:** 160mA-350mA @ 20-42Vdc / 300mA-600mA@10-22V (fixed & preset by factory)
- PFC design:** Built-in active PFC function
- Efficiency:** Up to 82%
- Protections:** Short circuit/ over load/ over temperature
- Heat dissipation:** Cooling by free air convection
- Waterproof Performance:** For dry, damp, wet locations
- Dimming function:** 0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
- Dimming Range:** 0-100%
- Application:** Suitable for LED lighting and moving sign applications
- Warranty:** 5 years warranty



Specification

Model:		LKAD009DC035042C	LKAD009DC060022C	
Certificate		CUL,CE,Rosh,		
Output	DC Voltage	20-42V	10-22V	
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Rated current	350mA	600mA	
	Rated power	14.7W	13.2W	
	Load Regulation	±2%	±1%	
Input	Voltage Range	100-277VAC		
	Frequency Range	50/60hz		
	Power Factor(Typ.) @full load	0.993@120VAC	0.99@100VAC	
	THD(Typ.) @ full load	<15%@120VAC & 277VAC		
	Efficiency(Typ.) @ full load	≥82.8%@120VAC	≥84.7%@100VAC	
	AC Current (Max.)	0.58A		
	Inrush Current (Typ.)	15A, 50%, 1.4ms @120VAC	65A, 50%, 1.4ms @277VAC	
	Leakage current	<0.5mA		
Protection	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		
Environment	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		
Safety & EMC	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		
Others	Net Weight			
	Dimension	76.5*31*24mm(L*W*H)		
	Packing	Cartons		
Notes	<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

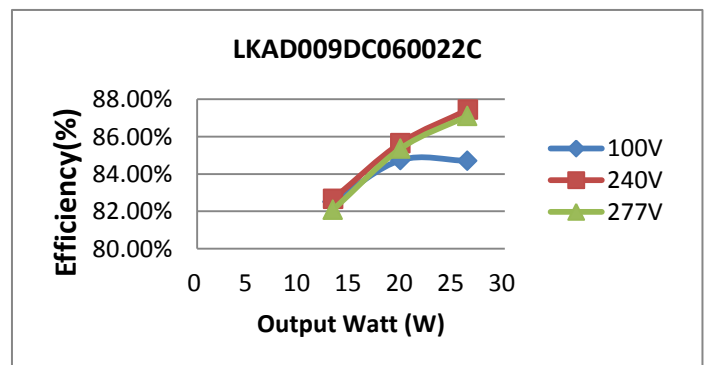
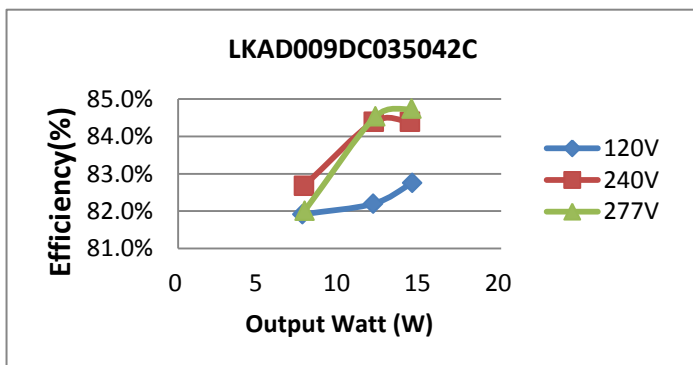
Model: LKAD009DC035042C

Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120	145.50	17.51	0.993	42.00	345	14.49	82.8%
	122.10	14.69	0.991	35.00	345	12.08	82.2%
	79.00	9.40	0.988	22.00	350	7.70	81.9%
240	72.10	17.02	0.979	42.00	342	14.36	84.4%
	61.60	14.35	0.964	35.00	346	12.11	84.4%
	43.22	9.42	0.902	22.00	354	7.79	82.7%
277	64.35	17.05	0.951	42.00	344	14.45	84.7%
	55.86	14.45	0.928	35.00	349	12.22	84.5%
	41.01	9.55	0.836	22.00	356	7.83	82.0%

Model: LKAD009DC060022C

Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
100	155.70	16.02	0.995	20.00	661	13.22	82.52%
	230.50	23.40	0.997	30.00	661	19.83	84.74%
	305.80	31.12	0.997	40.00	659	26.36	84.70%
240	71.15	16.04	0.938	20.00	663	13.26	82.67%
	99.87	23.15	0.964	30.00	661	19.83	85.66%
	128.90	30.19	0.973	40.00	660	26.40	87.45%
277	66.75	16.13	0.917	20.00	662	13.24	82.08%
	92.17	23.23	0.953	30.00	661	19.83	85.36%
	118.90	30.26	0.966	40.00	659	26.36	87.11%

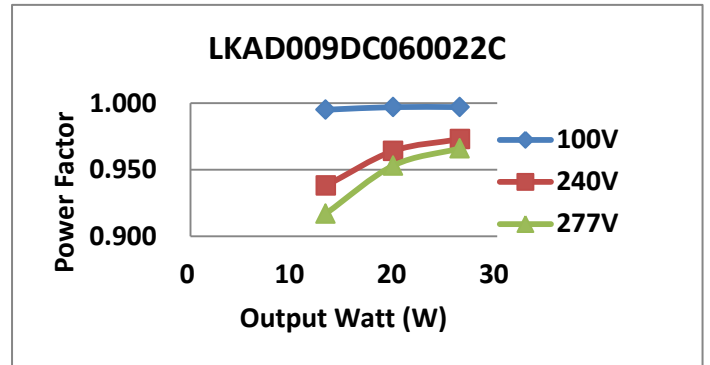
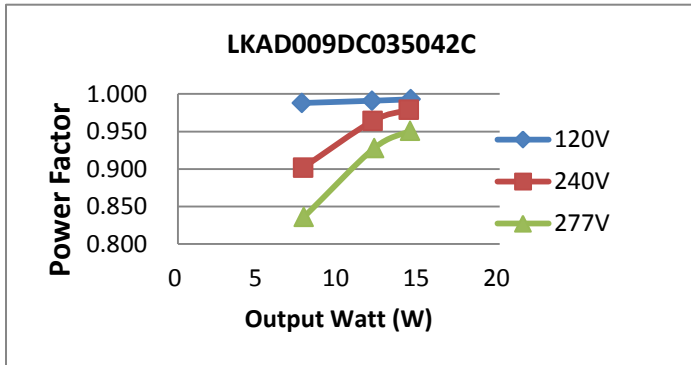
Efficiency Curve (efficiency vs ouput watt)



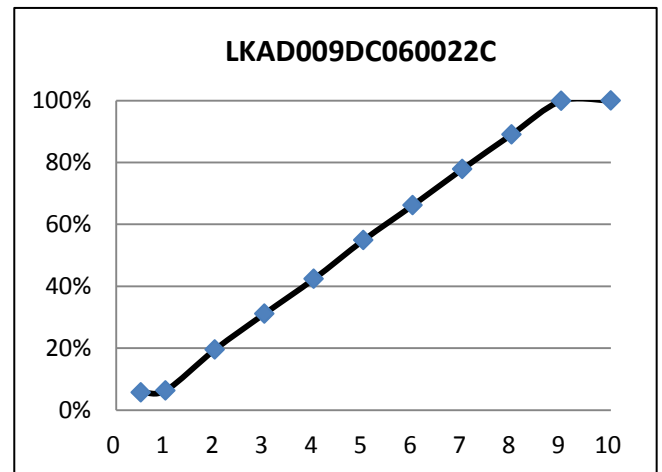
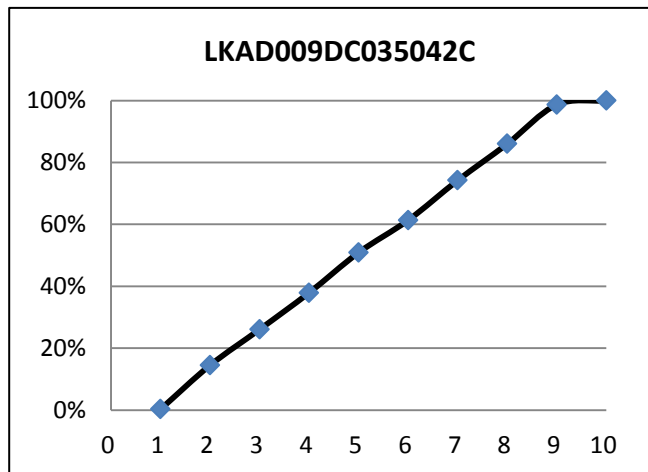


0-10V/1-10V Dimming LED driver 15W Max.

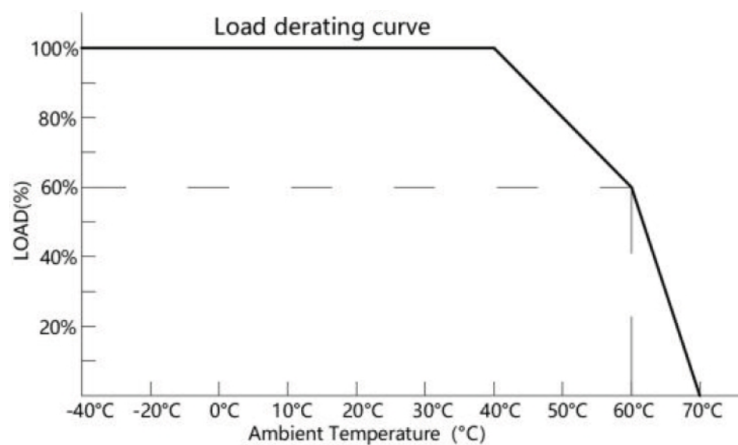
Power Factor Curve



0-10V Dimming Curve

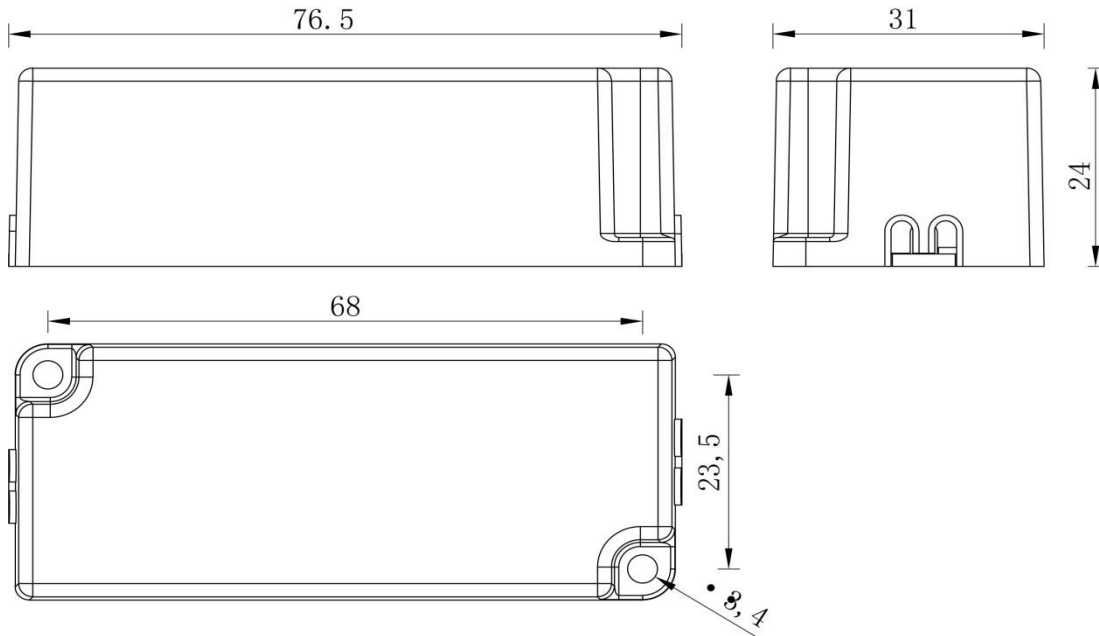


Derating Curve (output load vs TEMP.)

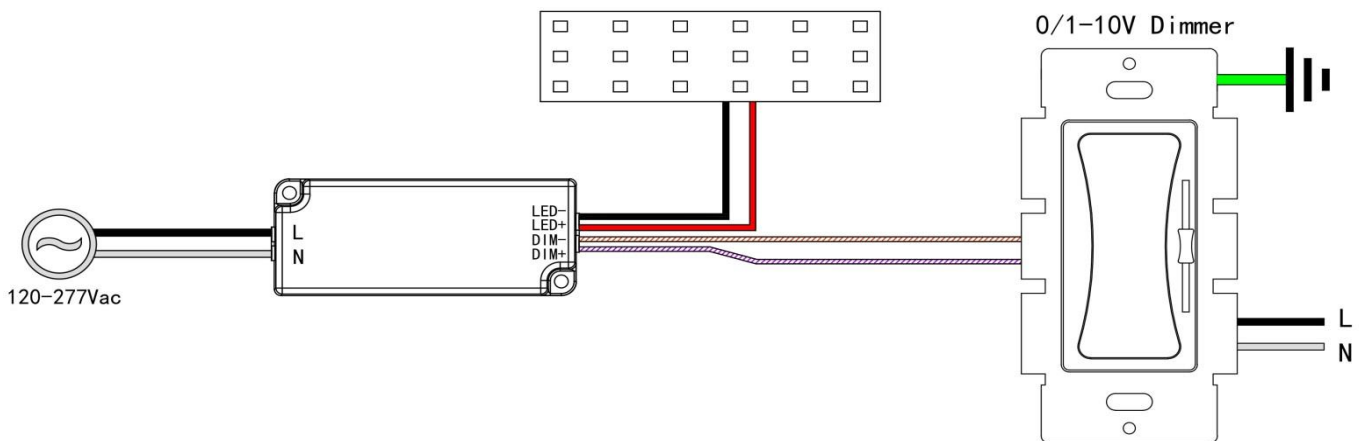




Installation Dimension



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. Dimming cable 2*22AWG, Purple cable DIM (+) to 0/1-10V dimmer signal(+), Pink cable DIM (-) to 0/1-10V dimmer signal (-).
4. Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged



Dimming Operation

Working well with most EU and US brands of 0/1-10V dimmers, 10V PWM dimmers or dimming system as well as potentiometer dimming system.

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