

LG-7006A

Multiple 6 Cell Narrow Adjustable Recessed Downlight LED



Project Information:	Project Name:
Fixture Type:	Location:

NARROWLINE

Narrow Recessed Downlight LED - 1x6 Square

Revolutionary narrow recessed downlight available in slim trim or trimless. Its simplified retrofit installation can be used in both new and existing spaces.

LED lighting engine is high performance, low power that provides outstanding reliability and color quality/consistency. 2700K, 3000K, 3500K, 4000K, 5000K, and 6500K color temperatures are available with 95 CRI.

- Life Rated for 40,000 hours at 70% lumen maintenance
- All testing reports are based on published industry procedures

Quick Info



Application New Construction / Remodeling	
Delivered Lumens Black Bevel - 685lm (10W) White Bevel - 856lm (10W)	Color Quality 95 CRI, 2-step SDCM
Color Temperature 2700K 3000K 3500K 4000K	Light Distribution General
Input Voltage 120/277V	Dimming TRIAC/ELV
Trims Slim Trim - Aluminum powder coated	Junction Box IC Rated - REMOTE
Housing Ratings N/A	Module Ratings ⚡ Damp Location
Guarantee 40,000 hrs 3 years	Additional Dimming Options 0-10 / DALI Dimming / Lutron EcoSystem

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Ordering Guide

PRODUCT CODE

LG - 7006A

MOUNTING (OPTIONAL)

- ☐ N - New Construction Mounting Plate

COLOR TEMPERATURE

- ☐ 27K - 2700K
☐ 30K - 3000K (STANDARD)
☐ 35K - 3500K
☐ 40K - 4000K
☐ 50K - 5000K
☐ 65K - 6500K

CRI

- ☐ 95 - 95 CRI

BEAM SPREAD

- ☐ 24°
☐ 36° (STANDARD)

BEVEL COLOR

- ☐ BBL - Black (STANDARD)
☐ BWH - White

LENS OPTICAL

- ☐ SF - Soft Focus (STANDARD)
☐ FR - Frosted
☐ LI - Linear Spread
☐ PR - Prismatic

FRAME COLOR

- ☐ WH - White (STANDARD)
☐ BL - Black

DIMMING OPTION

- ☐ T - Triac/ELV (STANDARD)
☐ D - DALI
☐ ECO - (Hi - lume Premier 0.1% Eco System LED Driver with Soft-on, Fade-to-black dimming technology)
☐ 0 - 10

Example Number

LG-7006A N 30K 95 36° SF BBL WH I

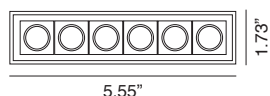
Order Number

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TRIM



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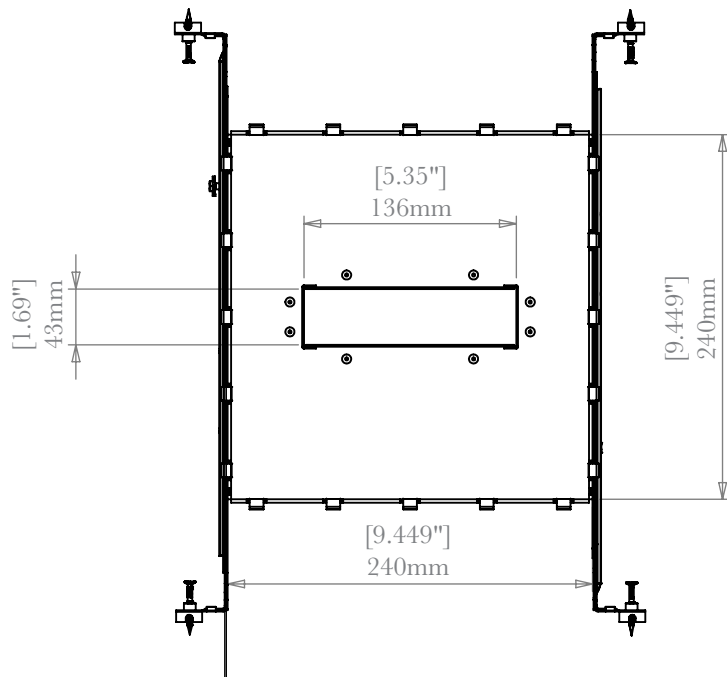
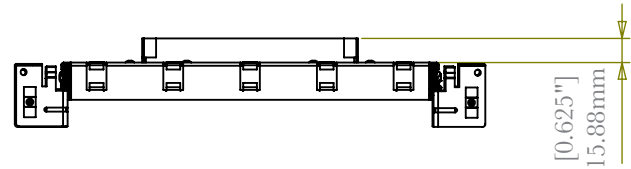
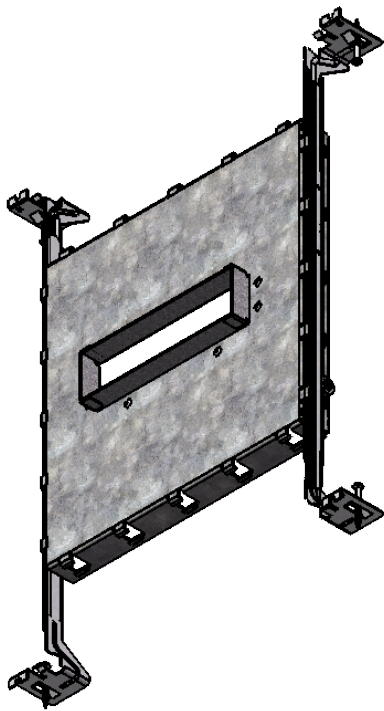
LED TYPE	LED OSRAM	
BEVEL	Black	White
DELIVERED LUMENS	685	856
WATTS	10W	
CRI	95	
COLOR TEMPERATURE	2700K / 3000K / 35000K / 4000K	
VOLTAGE	120 V / 277 V	
DIMMING	• TRIAC /ELV (Down to > 1%) - STANDARD • 0 - 10 v (Down to > 5%) • Lutron (Hi-lume Premier 0.1 % Eco System LED Driver with Soft-on, Fade-to-black dimming technology) (Install remote, no junction box supplied) • DALI (Install remote, no junction box supplied)	
POWER SUPPLY	Constant current driver 10.8-19.2v/600mA	
BEAM SPREAD	24°/36°	
OPTICS	Soft Focus/ Frosted / Linear Spread/ Prismatic	
ADJUSTABILITY	Adjustable	
JUNCTION BOX	IC RATED - Remote	
FINISH	Aluminum Powder Coated	

Product Features

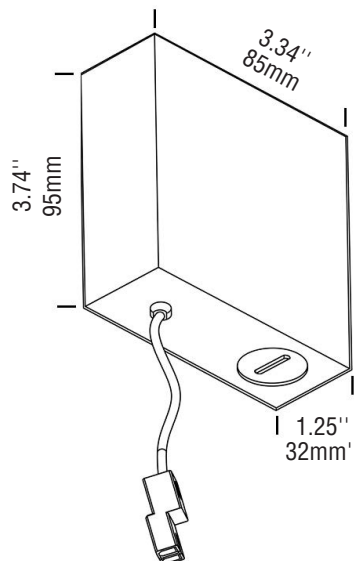
- Revolutionary flush mounted slim trim design offers consistent aesthetics
- Energy efficient LED light engines
- Dimmable with a variety of commonly used drivers
- Fixtures can be used with all Smart House Systems such as Lutron, Vantage, Control4, Crestron and others
- Easy installation for new construction and remodel applications
- IC Rated UL approved fixtures
- Wet location rated
- Driver included

1003-6

New Construction Plate
For 7006A



Driver Case



LKAD009D-C



Class P SELV TYPE HL  **RoHS**



Features

Output:	Constant Current
Range:	160-350mA @ 20-42Vdc / 300-600mA@10-22V (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. 0-10V dimming: 0-10V/1-10V
Dimming Range:	0-100%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

Specification

Model:		LKAD009DC035042C	LKAD009DC060022C	LKAD009DC045022C
Certificate		UL,CUL,CE,Rosh,		
Output	DC Voltage	20-42V	10-22V	10--22V
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Rated current	350mA	600mA	450mA
	Rated power	14.7W	13.2W	9.9W
	Load Regulation	±2%	±1%	±1%
Input	Voltage Range	100-277VAC		
	Frequency Range	50/60hz		
	Power Factor(Typ.) @full load	0.993@120VAC	0.99@120VAC	0.98@120VAC
	THD(Typ.) @ full load	<15%@120VAC & 277VAC		
	Efficiency(Typ.) @ full load	≥82.8%@120VAC	≥84.7%@100VAC	≥0.78%@120VaC
	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℃±10℃ shut down o/p voltage, automatically recover after cooling		
Environment	Working TEMP.	-40~+60℃ (see below derating curve)		
	Working Humidity	20 - 95%RH non-condensing		
	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 & 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℃/ 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	1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃of ambient temperature. 2. Tolerance: includes set up tolerance and load regulation.			

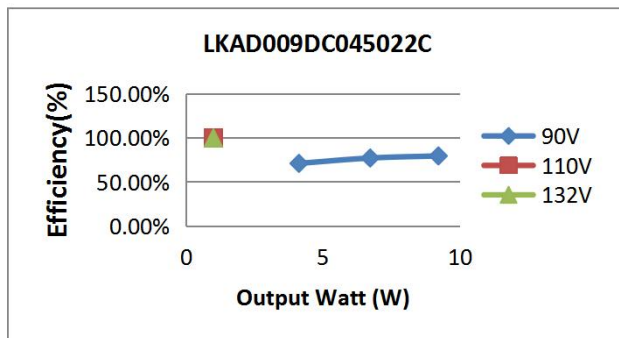
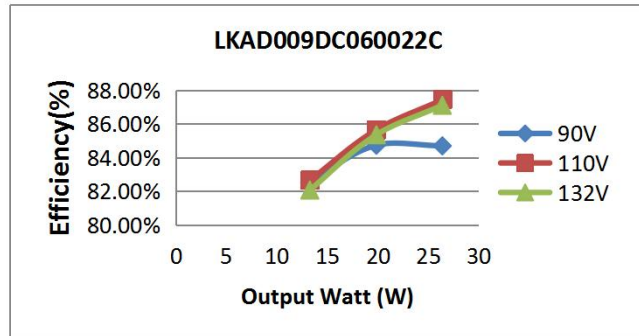
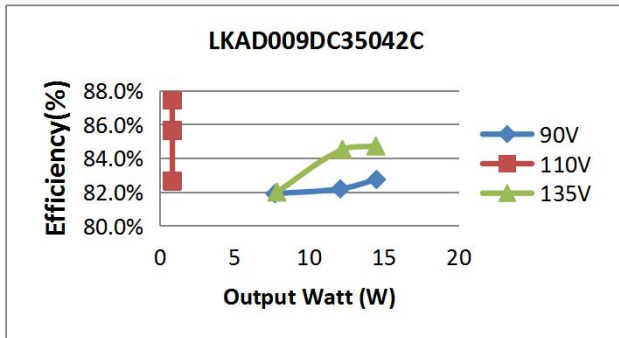
Electrical Characteristics

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%

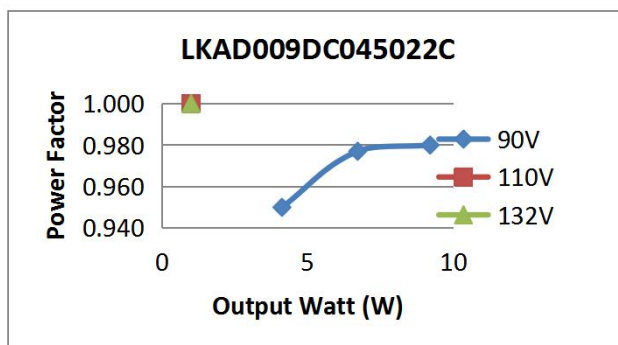
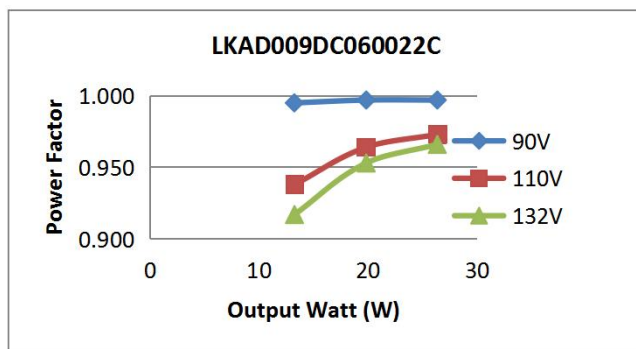
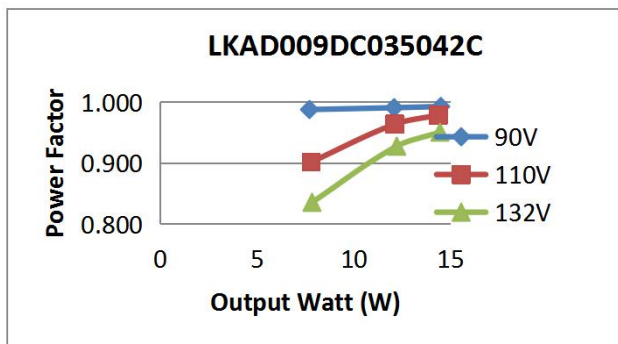
Model: LKAD009DC060022C							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
100	155.70	16.02	0.995	20.00	661	13.22	82.52%
	230.50	23.40	0.997	30.00	661	19.83	84.74%
	305.80	31.12	0.997	40.00	659	26.36	84.70%
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%

Model: LKAD009DC045022C							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120	51	5.79	0.950	8.86	465	4.12	71.16%
	74	8.70	0.977	14.70	457	6.72	77.22%
	98	11.56	0.980	20.50	449	9.20	79.62%

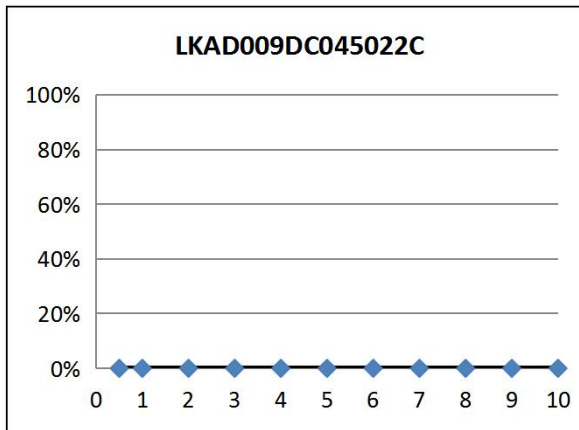
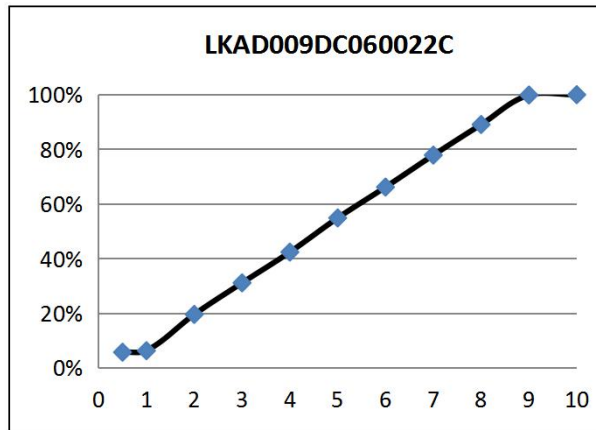
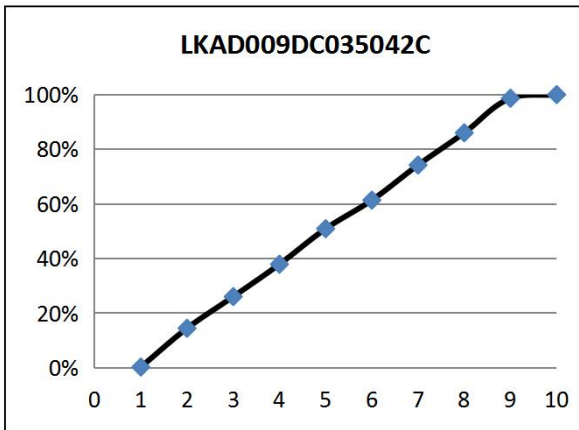
Efficiency Curve (efficiency vs ouput watt)



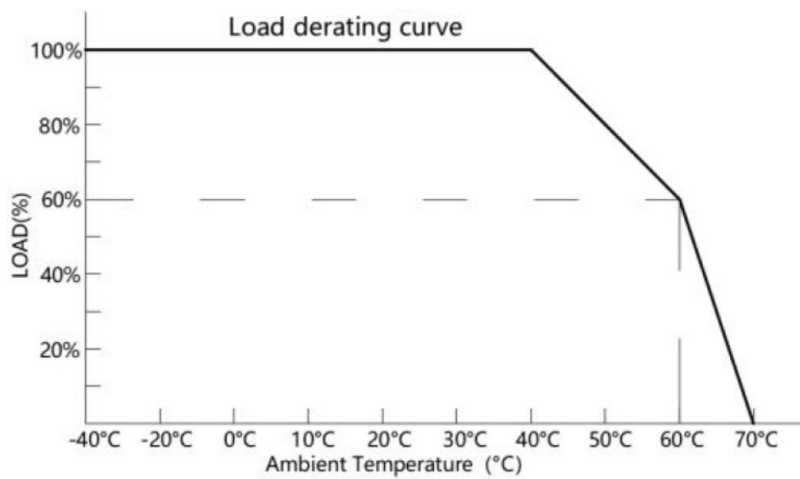
Power Factor Curve



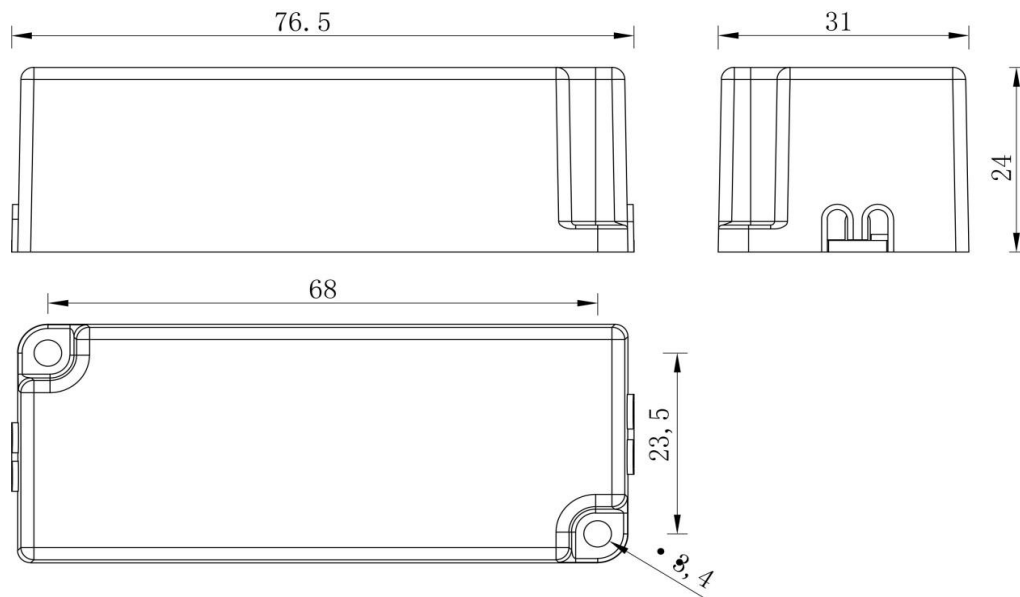
0-10V Dimming Curve



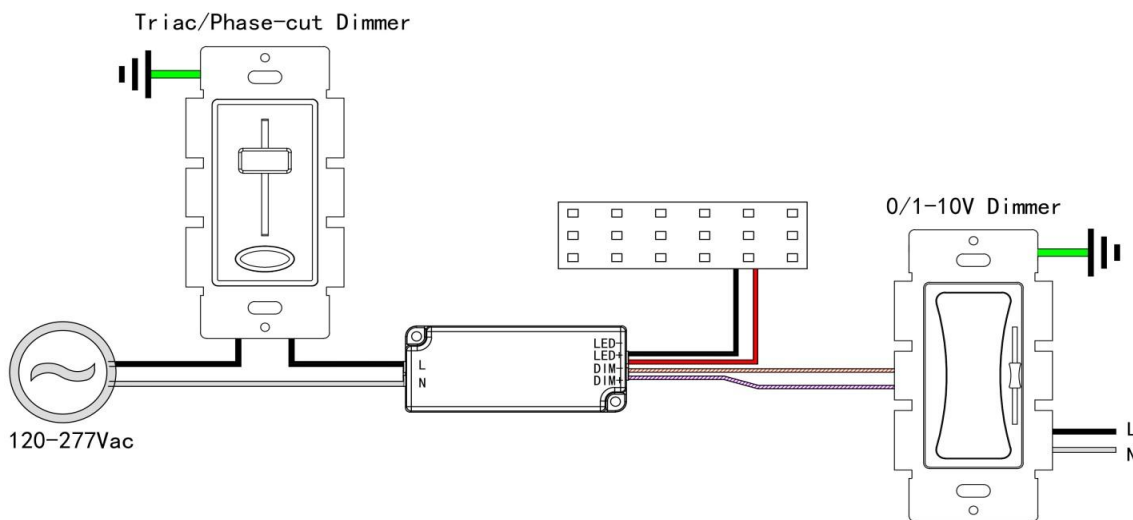
Derating Curve (output load vs TEMP.)



Installation Dimension



Wiring Diagram



1. Input cable 3*18AWG, the Green cable to GND, 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 DO NOT connect "DIM-" to "LED-", "DIM+" to "LED+", or other incorrect connection.
5. Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.

Dimming Operation

This driver can dimming in two ways 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.

1. TRIAC/Phase cut dimming

- 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.

2. 0-10/ 1-10V Dimming

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

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