

LG-7003A

Multiple 3 Cell Narrow Adjustable Recessed Downlight LED



Project Information:	Project Name:
Fixture Type:	Location:

NARROWLINE

Narrow Recessed Downlight LED - 1x3 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, and 4000K 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 (6W) 5x2W White Bevel - 856lm (6W) 5x2W	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 - 7003A

MOUNTING (OPTIONAL)

- ☐ N - New Construction Mounting Plate

COLOR TEMPERATURE

- ☐ 27K - 2700K
☐ 30K - 3000K (STANDARD)
☐ 35K - 3500K
☐ 40K - 4000K

CRI

- ☐ 95 - 95 CRI

BEAM SPREAD

- ☐ 24 °
☐ 36 ° (STANDARD)

LENS OPTICAL

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

BEVEL COLOR

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

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-7003A N 30K 95 36° SF BBL WH I

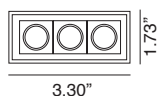
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TRIM



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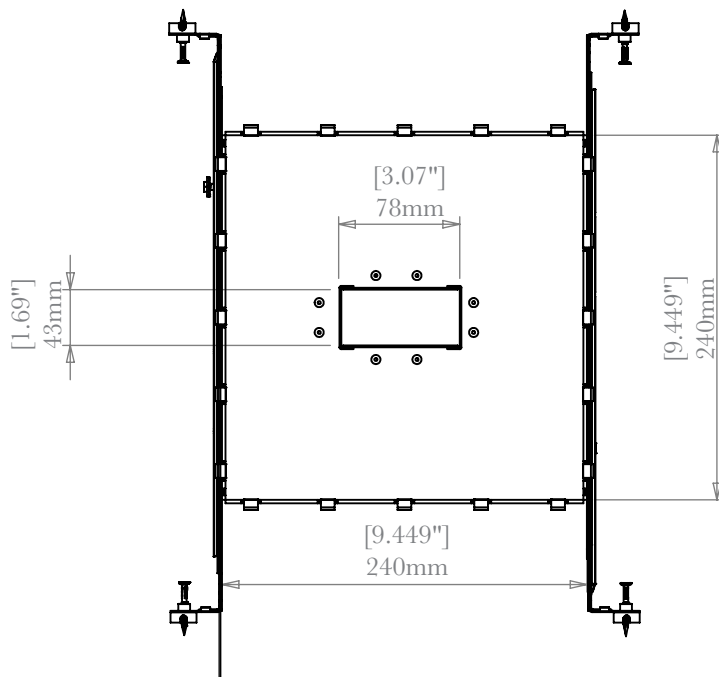
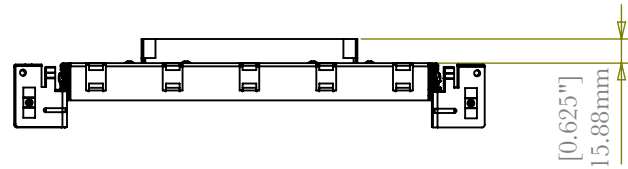
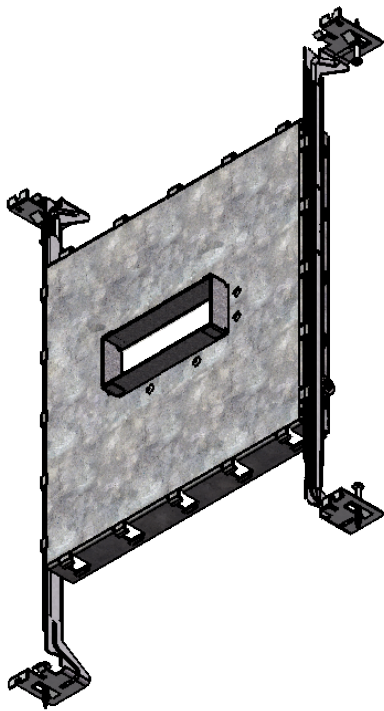
LED TYPE	LED OSRAM	
BEVEL	Black	White
DELIVERED LUMENS	685	856
WATTS	6W	
CRI	95	
COLOR TEMPERATURE	2700K / 3000K / 35000K / 4000K	
VOLTAGE	120 V / 277 V	
DIMMING	• TRIAC /ELV (Down to > 1%) - STANDARD • 0 -10 v (Down to > 5%) • Lutron (Hi-lume Premier 0.1 % Eco System LED Driver with Soft-on, Fade-to-black dimming technology) (Install remote, no junction box supplied) • DALI (Install remote, no junction box supplied)	
POWER SUPPLY	Constant current driver 5.4v-9.6v/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

1003-3

New Construction Plate
For 7003A



KIG-DW Series 20W

Whole Family: KIG-XXX-DW - [10W 20W 40W 60W]



Class 2 Class P

SELV



RoHS



Reach



Features

Output:	Constant Current
NFC function:	Adjust output current by NFC
Range:	100-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 78%
Protections:	Short circuit/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	Full protection plastic housing, for dry, damp, locations
Dimming function:	<u>Phase dimming</u> : work with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers. <u>0-10V dimming</u> : 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
Dimming range:	1-100%
Application:	Suitable for the application of indoor LED lighting
Warranty:	5 years warranty

Specification

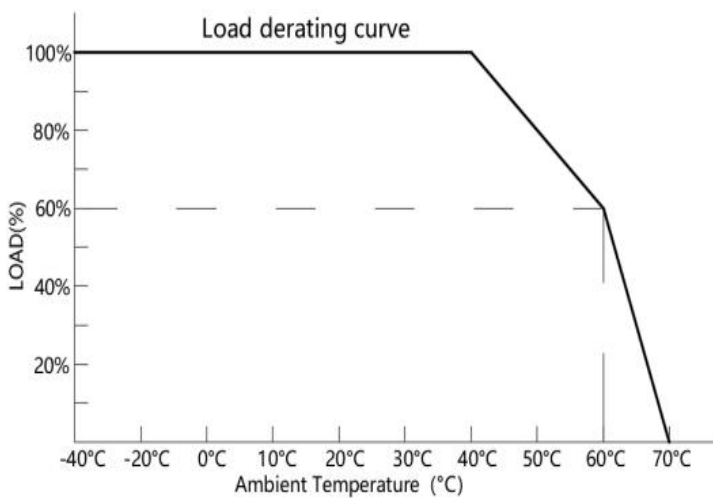
T ON **L** OFF

Model		KIG-020-DW							
Output	Rated current(mA)	250mA ⏏⏏⏏	350mA ⏏⏏⏏	400mA ⏏⏏⏏	450mA ⏏⏏⏏	500mA ⏏⏏⏏	550mA ⏏⏏⏏	600mA ⏏⏏⏏	700mA ⏏⏏⏏
	Current Tolerance	±5%							
	DC Voltage (V)	3-42V	3-42V	3-42V	3-42V	3-40V	3-36V	3-33V	3-29V
	Rated power	10.5W	14.7W	16.8W	18.9W	20W	19.8W	19.8W	20.3W
	No-load voltage	52VMax							
Input	Rated Voltage	100-277VAC							
	Rated Frequency	47-63HZ							
	Power Factor	0.95@120VAC 60Hz				0.88@277VAC 60Hz			
	THD(Typ.) @ full load	9.33%@120VAC 60Hz				12.79%@277VAC 60Hz			
	Efficiency @ full load	78%@120VAC 60Hz				78%@277VAC 60Hz			
	No-load power	2.5W@120VAC 60Hz				2.69W@277VAC 60Hz			
	AC Current (Max.)	0.3A							
	Inrush Current	2.56A,18us@50%Ipeak 120VAC 3.04A,10us@50%Ipeak 277VAC							
	Leakage current	<0.50mA							
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed							
	Over temperature	Ambient temp. over 50±5℃, output current will be reduced to 50%; Ambient temp. over 60±5℃,output current will be reduced to 0%; Ambient temp. over 45±5℃,recovers automatically after temp. Drops.							
Environment	Working TEMP.	-40-+60℃							
	Working Humidity	20-90%RH, non-condensing							
	Storage TEMP.Humidity	-40-+80℃,10-95%RH							
	TEMP. coefficient	±0.03%/℃ (0-50℃)							
	Vibration	10-500Hz, 2G 10min./1 cycle,period for 60min.each along X,Y,Z axes							
Safety & EMC	Safety standards	UL8750 (US)							
	Withstand voltage	I/P-O/P:1.80VAC (US)							
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25℃ / 70%RH							
	EMC Emission	FCC Part 15B (US)							
Others	Net Weight	0.115Kg							
	Dimension	159.5*43*20mm(L*W*H)							
	Packing	340*250*135 50PCS/CTN 6.52KG/CTN							
Notes	1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃of ambient temperature. 2. Tolerance: includes set us tolerance, line regulation and load regulation.								

Efficiency Curve (efficiency vs output load)

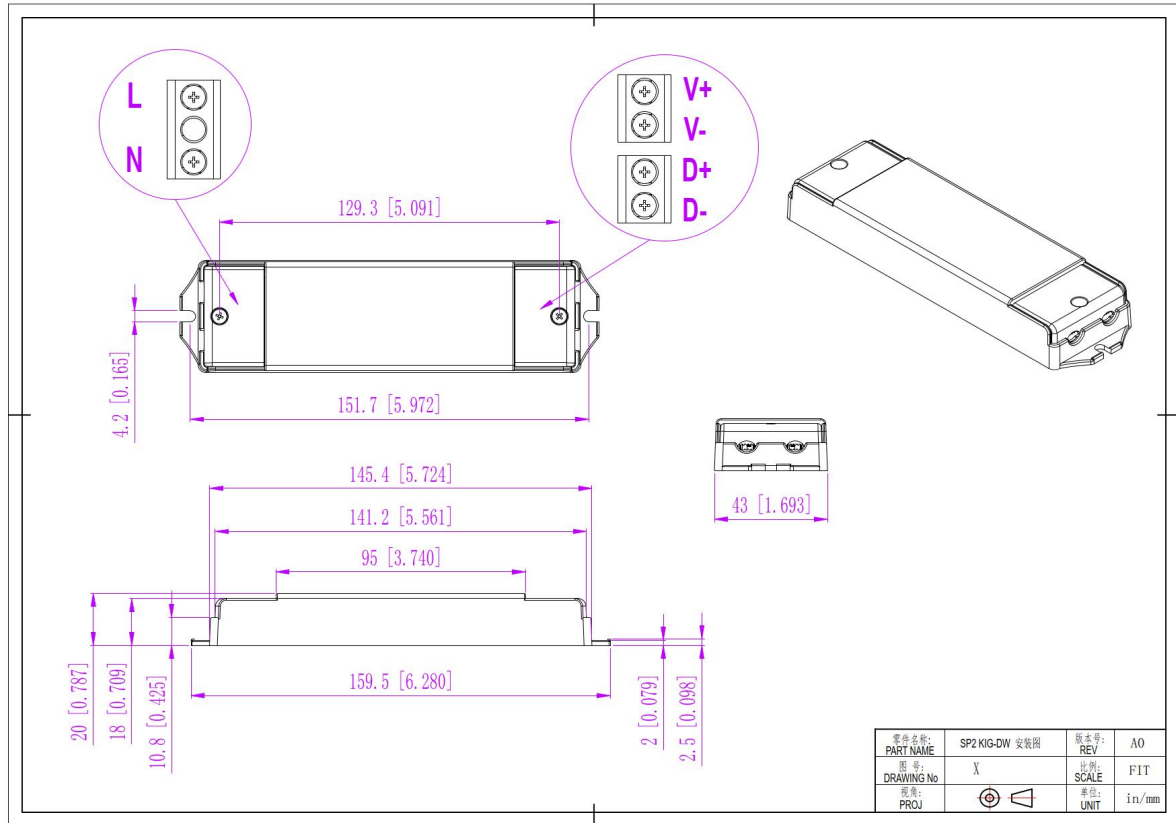


Derating Curve (output load vs TEMP.)



1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid overloading.

Mechanical Specification



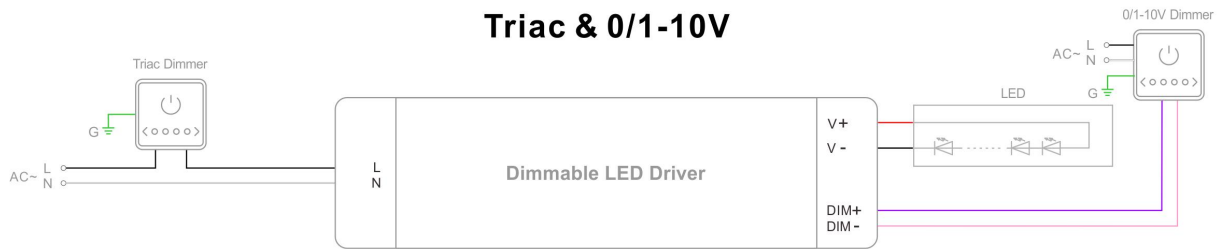
1. Input with DG126 terminals 3P: Live Wire AC (L), Neutral Wire AC(N).
2. Output LED SEC with DG126 terminals 2P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
3. Dimming DG126 terminals 2P: DIM (+) to 0/1-10V dimmer signal(+), DIM (-) to 0/1-10V dimmer signal (-).
4. Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

Warm tips:

1. Suggested wire diameter: Input 0.75-2mm²; Output:0.5-2mm².
2. Any other requests for, we can customized.

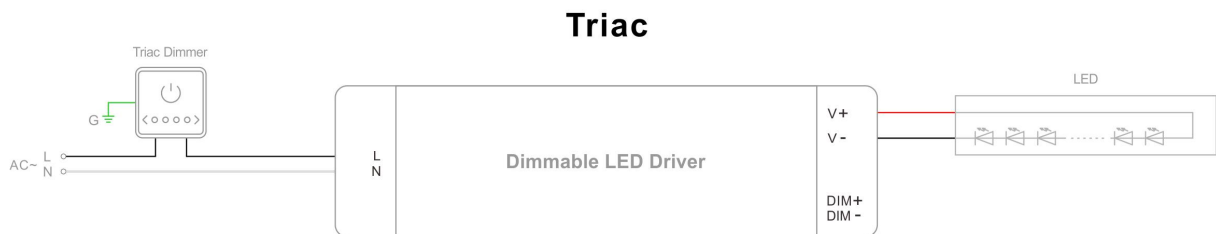
Dimming Operation and Connecting Diagram

- **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;

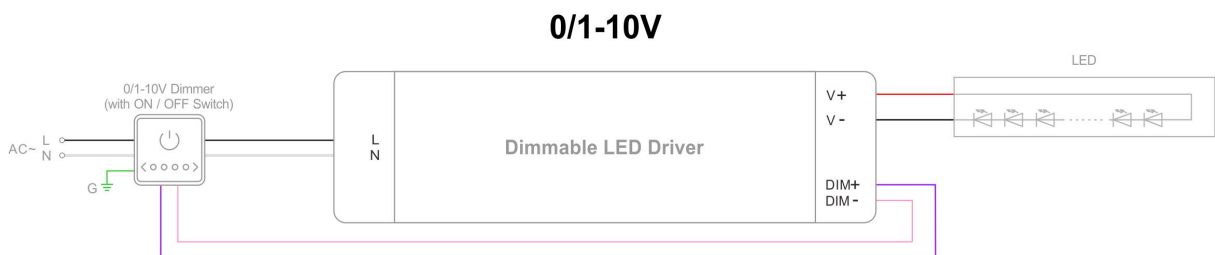


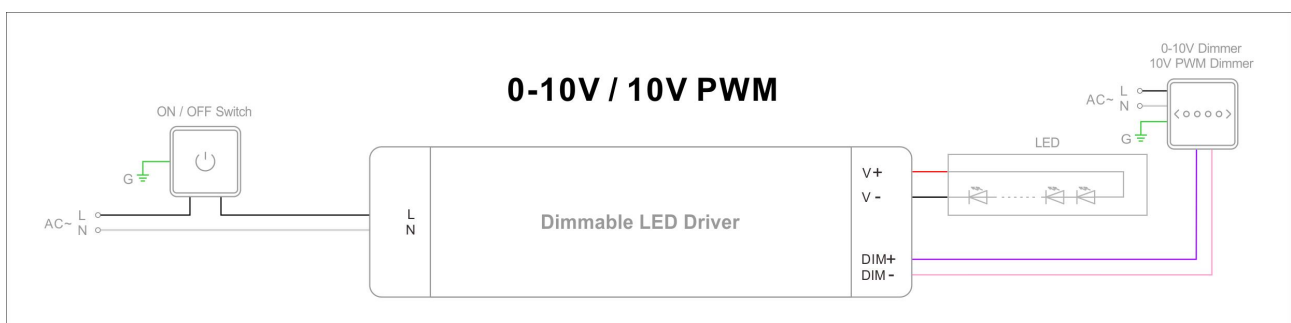
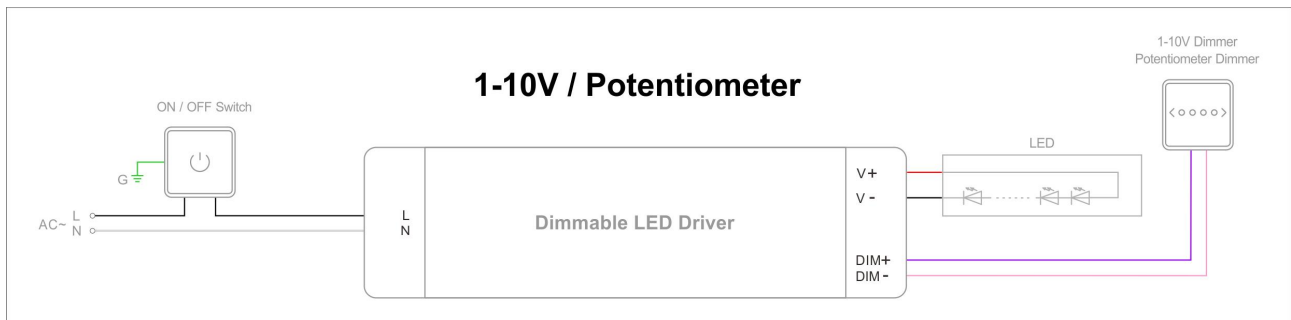
- **Using one dimming ---TRIAC/Phase cut dimming**

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, MLV and Reverse phase, ELV, TRIAC dimmers or light system.
3. Min. loading is about 10%
4. Please try to use dimmers with power at least 2 times as the output power of the driver.



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





Instructions

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.

WARNING:

Do not connect the LED fixtures to the driver while the driver is under power. First, complete all fixture connections in series permanently, then connect the system to the driver and energize the power. Do not disconnect, reconnect, or handle the fixtures while the driver is energized, as this may damage the LEDs.

KIG-DW Series 40W

Whole Family: KIG-XXX-DW - [10W 20W 40W 60W]



Class P SELV



RoHS



Features

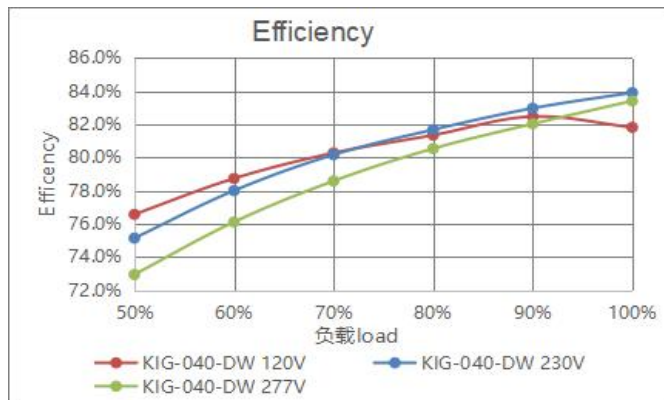
Output:	Constant Current
NFC function:	Adjust output current by NFC
Range:	100-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 83%
Protections:	Short circuit/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	Full protection plastic housing, for dry, damp, locations
Dimming function:	<u>Phase dimming</u> : work with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers <u>0-10V dimming</u> : 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
Dimming range:	1-100%
Application:	Suitable for the application of indoor LED lighting
Warranty:	5 years warranty

Specification

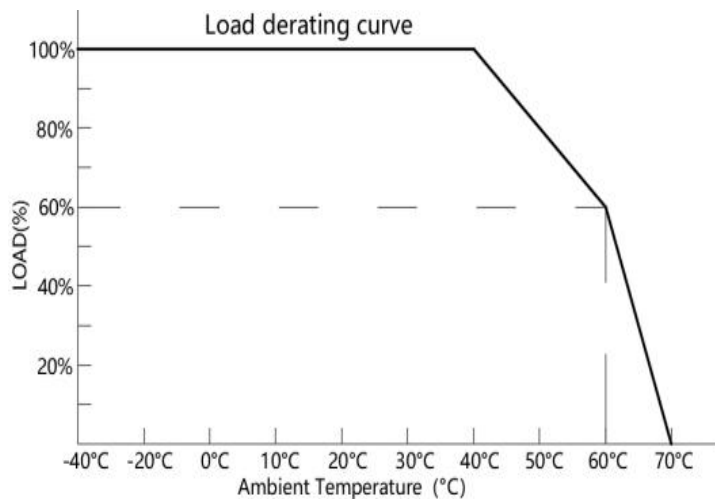
T ON **↓** OFF

Model		KIG-040-DW																
Output	Rated current (A)	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	
	DIP Code	1111		1T11		11T1		1TT1		111T		1T1T		11TT		1TTT		
	DIP Code		T111		TT11		T1T1		TTT1		T11T		TT1T		T1TT		TTTT	
	Current Tolerance	±5%																
	No-Load Voltage	75V max.																
	DC Voltage (V)	3-65V								3-62	3-57	3-50	3-45	3-40	3-37	3-34	3-31	3-29
	Rated power (W)	19.5	22.8	26	29.3	32.5	35.8	39	40									
Input	Rated Voltage	100-277VAC																
	Rated Frequency	47-63HZ																
	Power Factor	0.95@120VAC 60Hz								0.90@277VAC 60Hz								
	THD@ full load	≤20%																
	Efficiency (Typ.)	≥80%@230VAC																
	AC Current (Max.)	0.52A@100VAC																
	Inrush Current (Typ.)	3.12A,36us@50%Ipeak @120VAC 21.2A,13.8us@50%Ipeak @230VAC 9.2A,34us@50%Ipeak @277VAC																
	Leakage current	<0.50mA																
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed																
	Over temperature	Ambient temp. over 50℃±5℃, output current will be reduced to 50%; Ambient temp. over 60℃±5℃, output will be off; recovers automatically after temp. drops.																
Environ- ment	Working TEMP.	-40-+60℃																
	Working Humidity	20-90%RH, non-condensing																
	Storage TEMP. Humidity	-40-+80℃, 10-95%RH																
	TEMP. coefficient	±0.03%/℃ (0-50℃)																
	Vibration	10-500Hz, 2G 10min./1 cycle,period for 60min.each along X,Y,Z axes																
Safety & EMC	Safety standards	UL8750																
	Withstand voltage	I/P-O/P:1.80VAC (US)																
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25℃ / 70%RH																
	EMC Emission	FCC Part 15B																
Others	Net Weight	0.225Kg																
	Dimension	171.5*54*20mm(L*W*H)																
	Packing	250*190*135mm 20PCS/CTN 5KG/CTN																
Notes	1. All parameters NOT specially mentioned are measured at 120VACinput,rated load and 25℃of ambient temperature. 2. Tolerance: includes set us tolerance, line regulation and load regulation.																	

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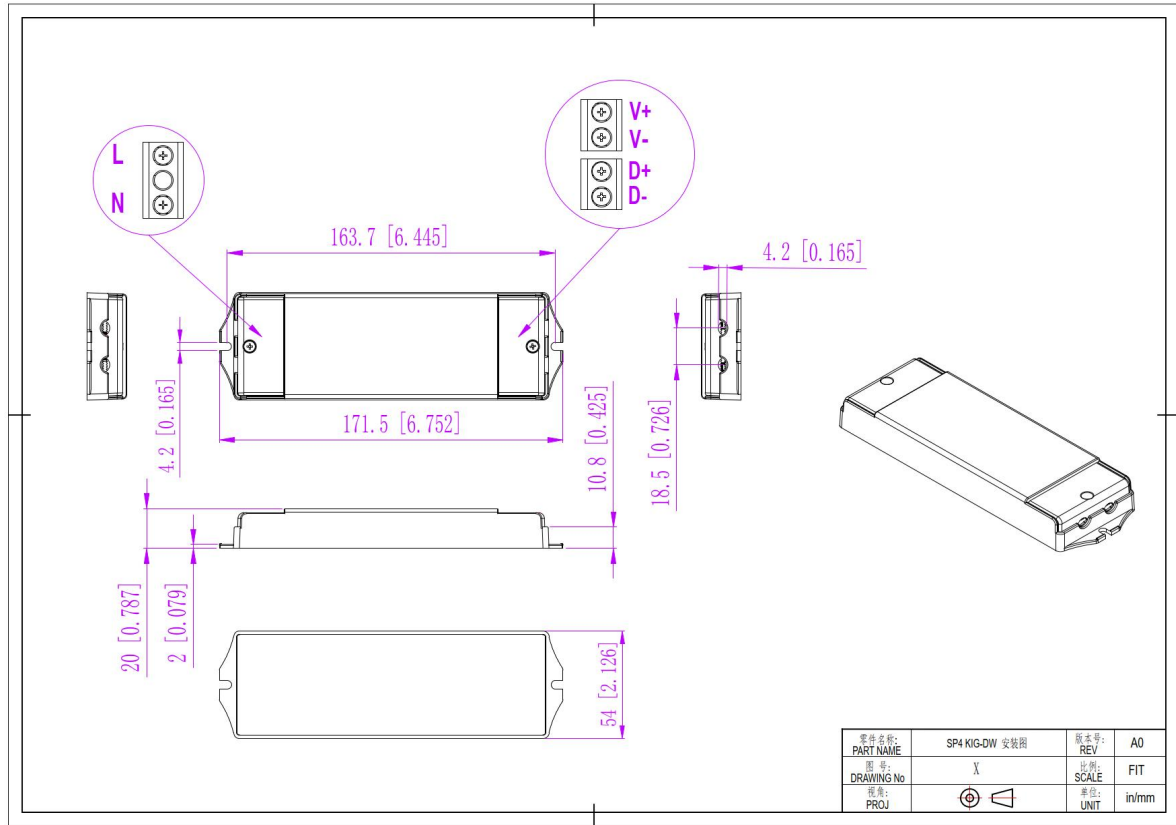


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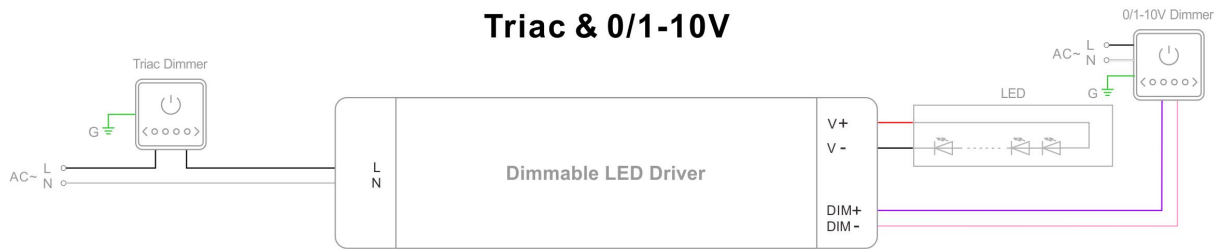
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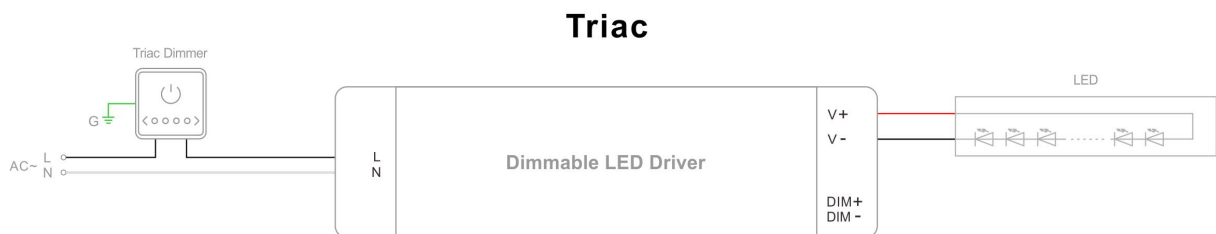
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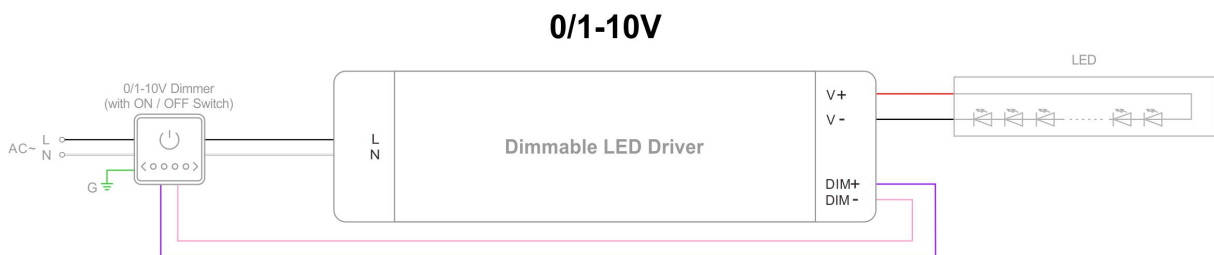


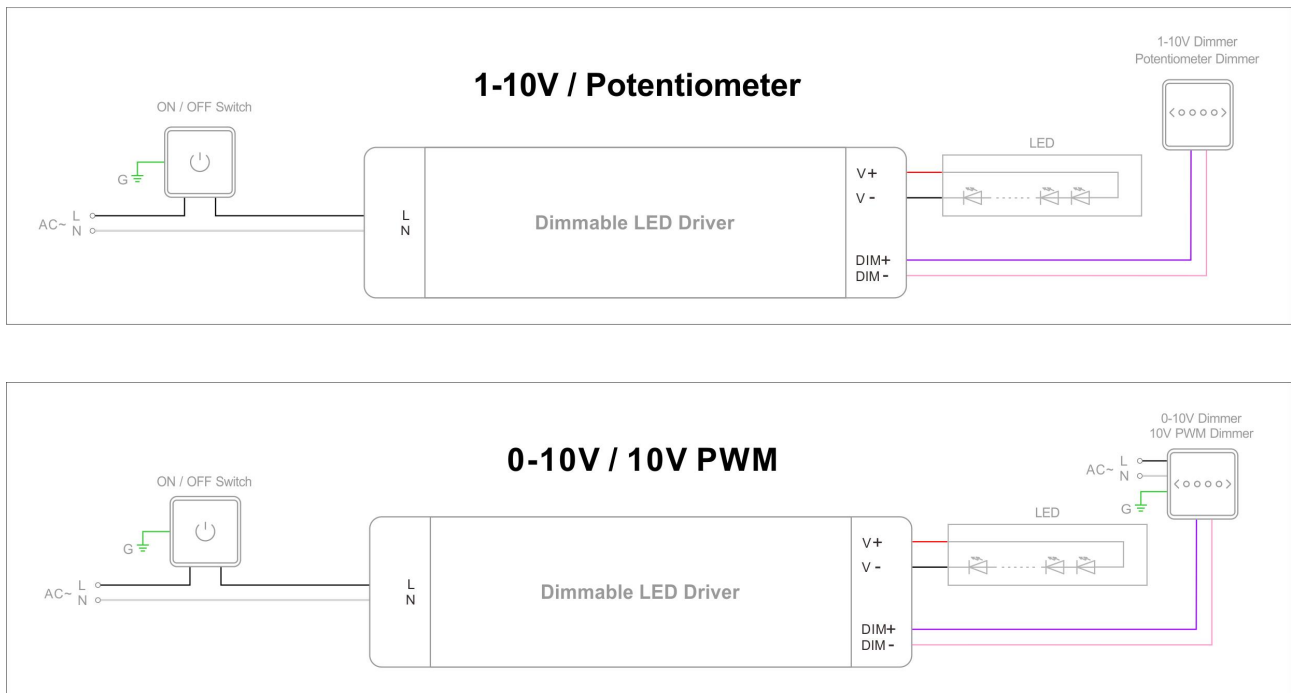
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