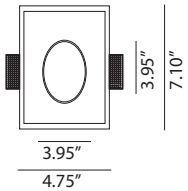
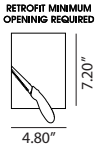
LG-4013

Small Wall Washer LED

Project Information:	Project Name:
Fixture Type:	Location:





HARMONY

The Harmony LED Plaster Recessed Light

Revolutionary Plaster light fixture which allows for a truly seamless and trimless installation. Our fixtures are paintable and texturable using standard paint and paint colors.

LED lighting engine is high performance, low power that provides outstanding reliability and color quality/consistency. 2700K, 3000K color temperatures are available with 90 CRI.

- Life Rated for 40,000 hours at 70% lumen maintenance
- All testing reports are based on published industry procedures
- For best results, do not paint the inside of the fixture. If painting is necessary we recommend using a spraying technique. Painting with a brush will reveal brush strokes when illuminated.

Quick Info

Application New Construction / Remodeling	
Delivered Lumens 80 lm (1W)	**Color Quality** 90 CRI, 2-step SDCM
Color Temperature 2700K 3000K	**Light Distribution** Stairway Pathway
Input Voltage 3V DC (Remote power supply)	**Dimming** TRIAC
Trims Gypsum Flangeless (seamless)	
Housing Ratings N/A	**Module Ratings** Damp Location
Guarantee 40,000 hrs | 3 years	**Additional Dimming Options** 0-10 / DALI Dimming / Lutron EcoSystem

LG-4013
Wall Recessed Steplight LED

Project Information:	Project Name:
Fixture Type:	Location:

Ordering Guide

Example Number:

LG-4013 — 27K — T-10

Product Code | Color Temperature | Dimming Option

Order Number:

LG-4013 — _____ — _____

Product Code | Color Temperature | Dimming Option

PRODUCT CODE

LG-4013

COLOR TEMPERATURE

☐ 27K - 2700K

☐ 30K - 3000K (STANDARD)

DIMMING OPTION

☐ T - 10 - Triac, ELV/MLV, 0-10V

☐ D - Dali2

☐ Eco - HI-lume Premier 0.1% EcoSystem LED driver soft-on, fade-to-black dimming technology

*REQUIRED: Zone schedule, please include in your request how many lights on each switch leg.

EXAMPLE:

Switch Leg	Fixture Qty
1	12
2	8
3	9
4	5

LG-4013

Wall Recessed Steplight LED

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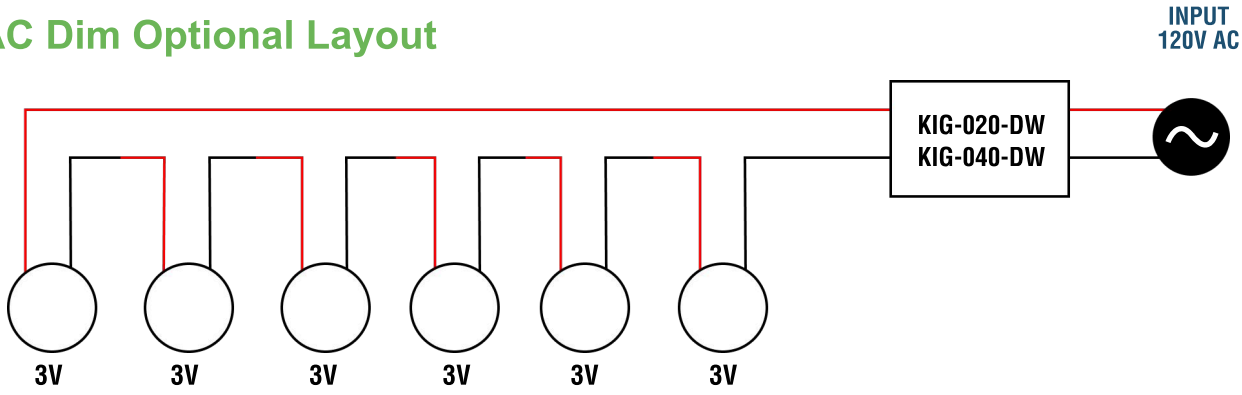
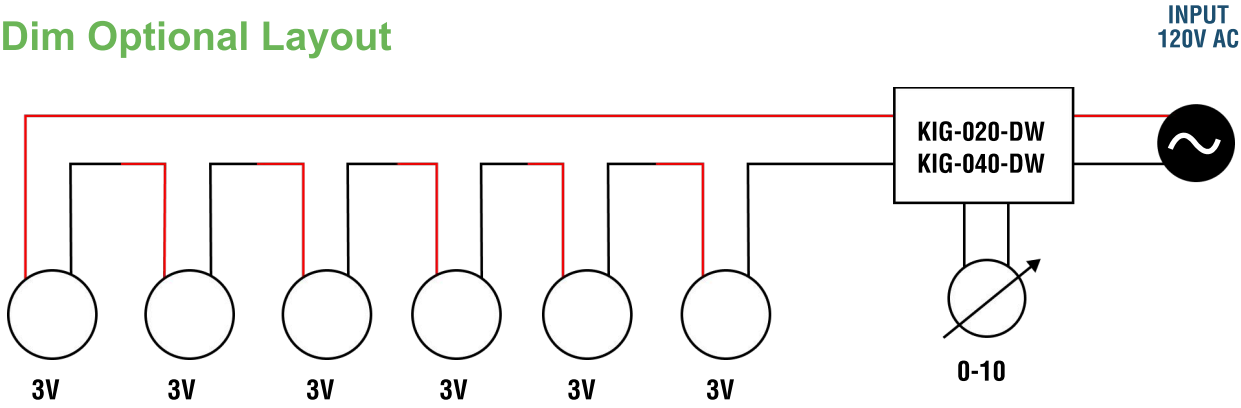
TRIAC Dim Optional Layout



KIG-020-DW carries a load of 1-14 fixtures

KIG-040-DW carries a load of 1-21 fixtures

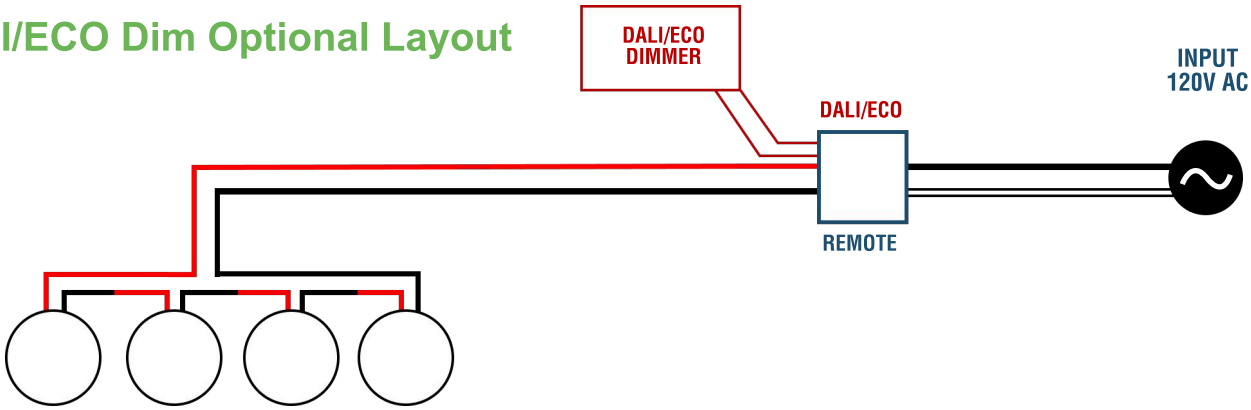
0-10 Dim Optional Layout



KIG-020-DW carries a load of 1-14 fixtures

KIG-040-DW carries a load of 1-21 fixtures

DALI/ECO Dim Optional Layout



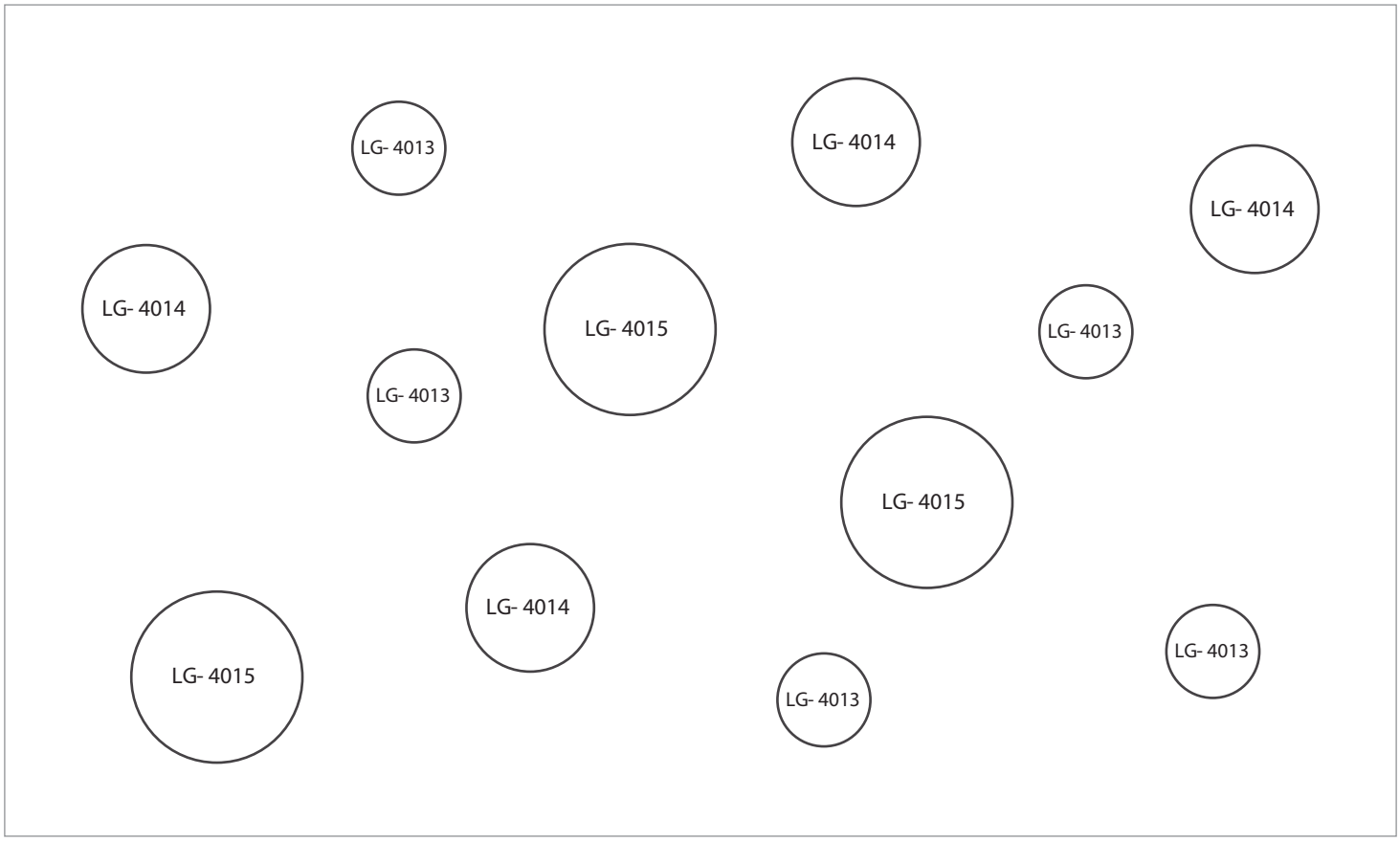
Carries a load of 4-17 fixtures

LG-4013

Small Wall Washer LED

Project Information:	Project Name:
Fixture Type:	Location:

Optional Layout



KIG-DW Series 20W

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

c UL us LISTED E495946 FC Class 2 Class P SELV CE RoHS Reach

Features

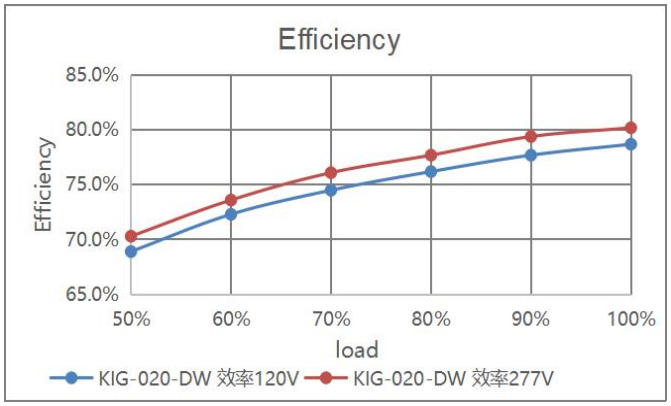
Output:	Constant Current
NFC function:	Adjust output current by NFC
Range:	100-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 78%
Protections:	Short circuit/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	Full protection plastic housing, for dry, damp, locations
Dimming function:	Phase dimming: work with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers. 0-10V dimming: 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

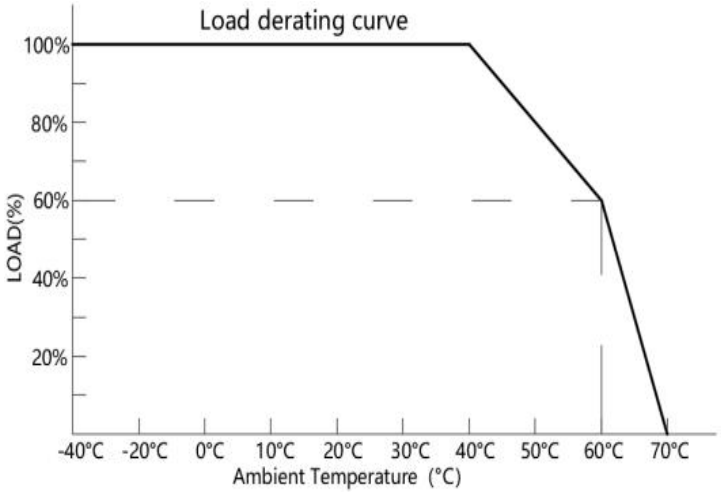
ON OFF

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)

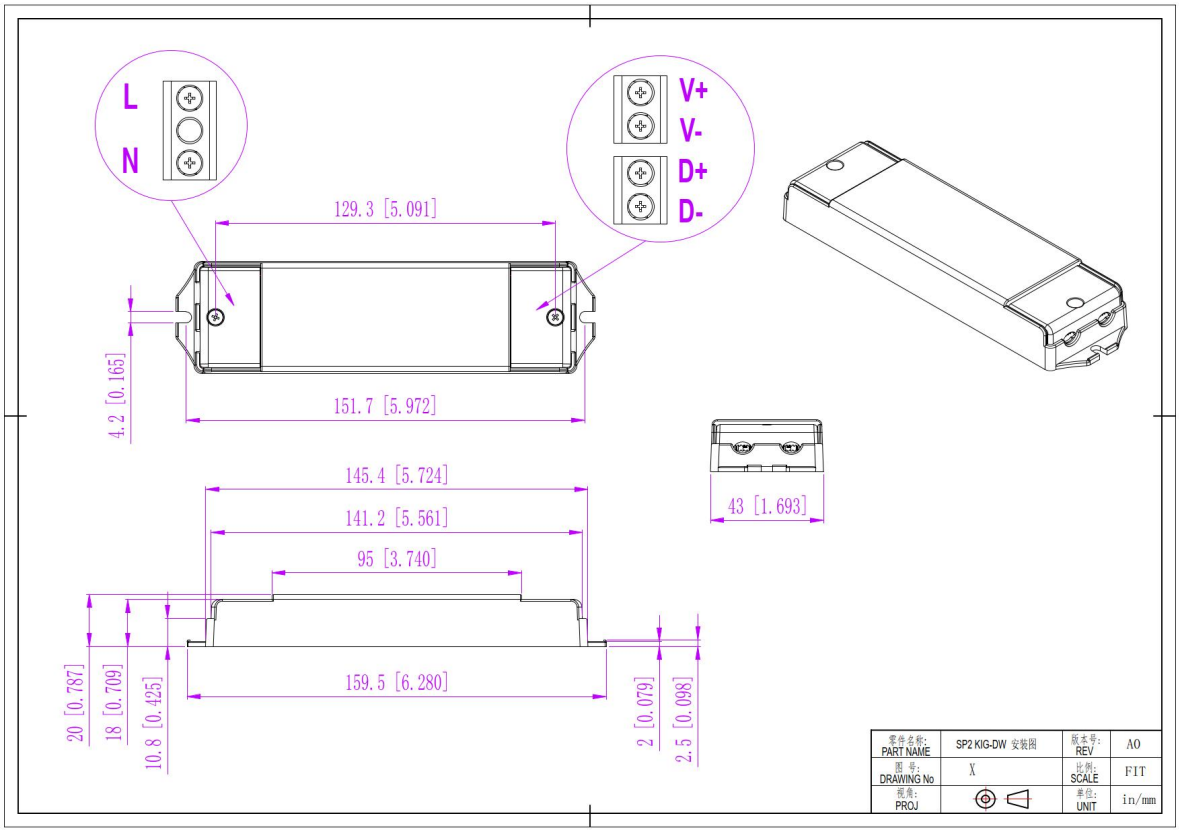


Derating Curve (output load vs TEMP.)



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



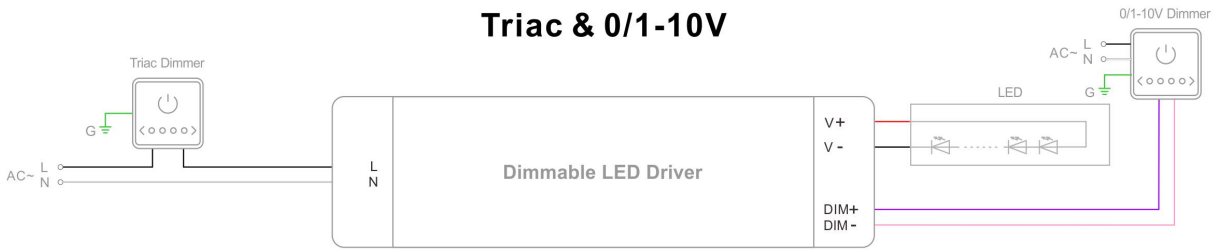
1. Input with DG126 terminals 3P: Live Wire AC (L), Neutral Wire AC(N).
2. Output LED SEC with DG126 terminals 2P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
3. Dimming DG126 terminals 2P: DIM (+) to 0/1-10V dimmer signal(+), DIM (-) to 0/1-10V dimmer signal (-).
4. Please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

Warm tips:

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

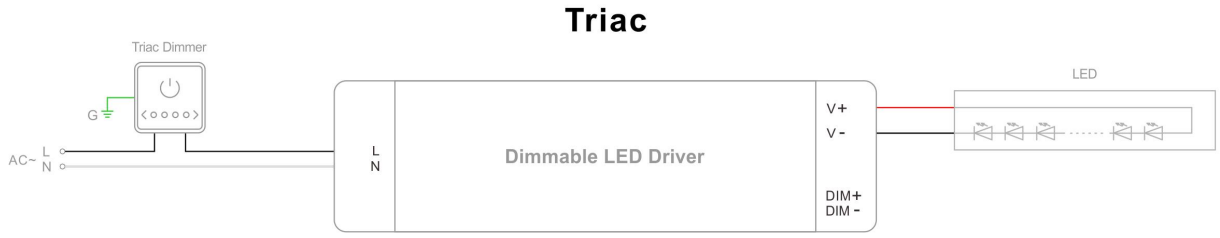
Dimming Operation and Connecting Diagram

- **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;

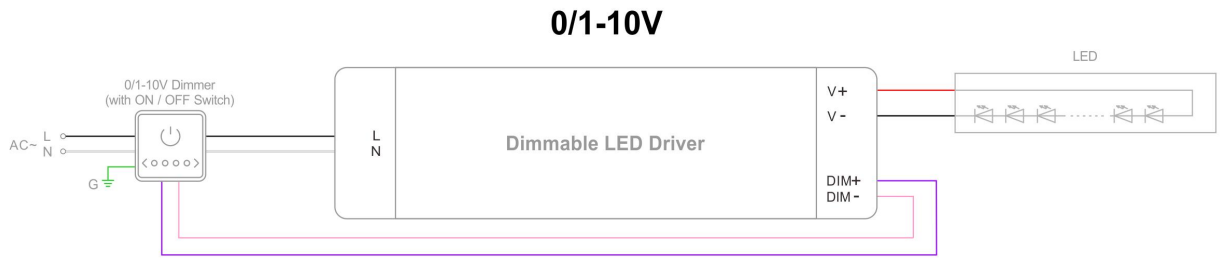


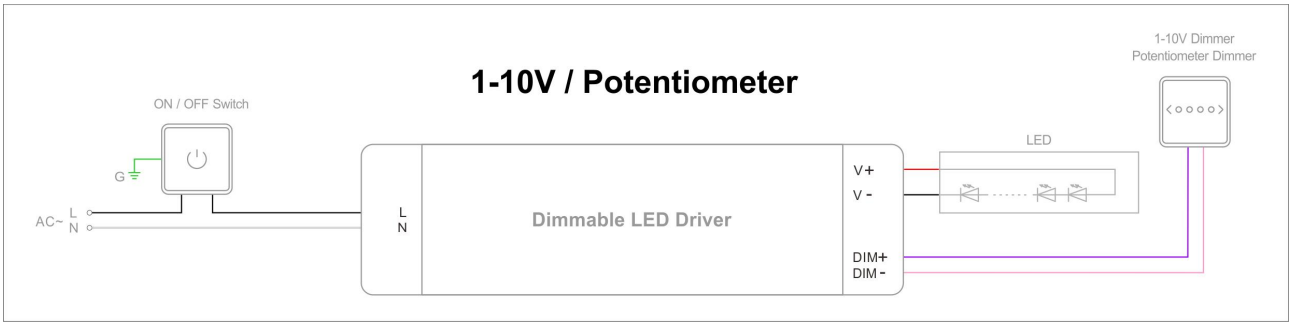
- **Using one dimming ---TRIAC/Phase cut dimming**

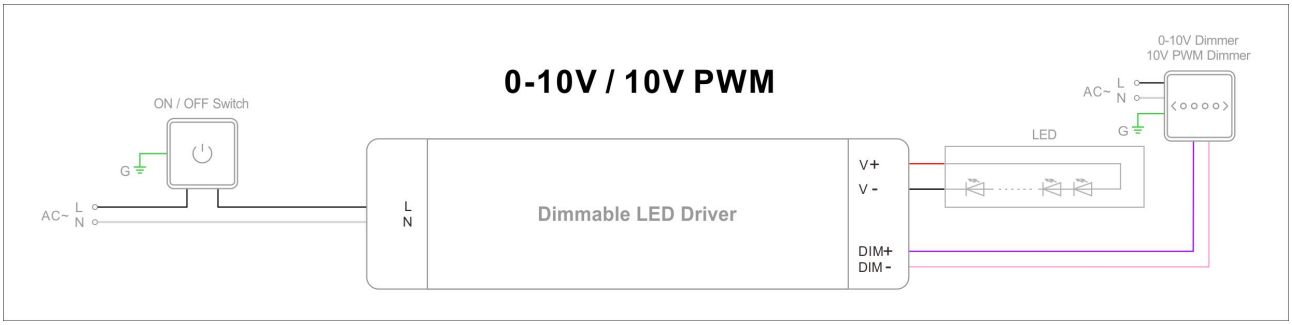
1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with forward phase, MLV and Reverse phase, ELV, TRIAC dimmers or light system.
3. Min. loading is about 10%
4. Please 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.

KIG-DW Series 40W

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

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:	Phase dimming: work with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers 0-10V dimming: 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	⊥⊥⊥⊥		⊤⊥⊥⊥		⊥⊤⊥⊥		⊤⊤⊥⊥		⊥⊥⊥⊤		⊤⊥⊤⊥		⊤⊤⊥⊤		⊤⊤⊤⊥	
	DIP Code		⊤⊥⊥⊥		⊤⊤⊥⊥		⊤⊥⊤⊥		⊤⊤⊤⊥		⊤⊥⊥⊤		⊤⊤⊥⊤		⊤⊥⊤⊤		⊤⊤⊤⊤
	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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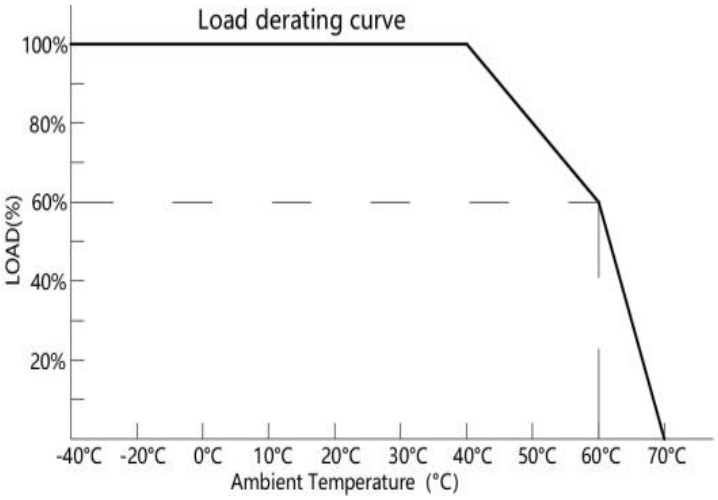
Derating Curve (output load vs TEMP.)



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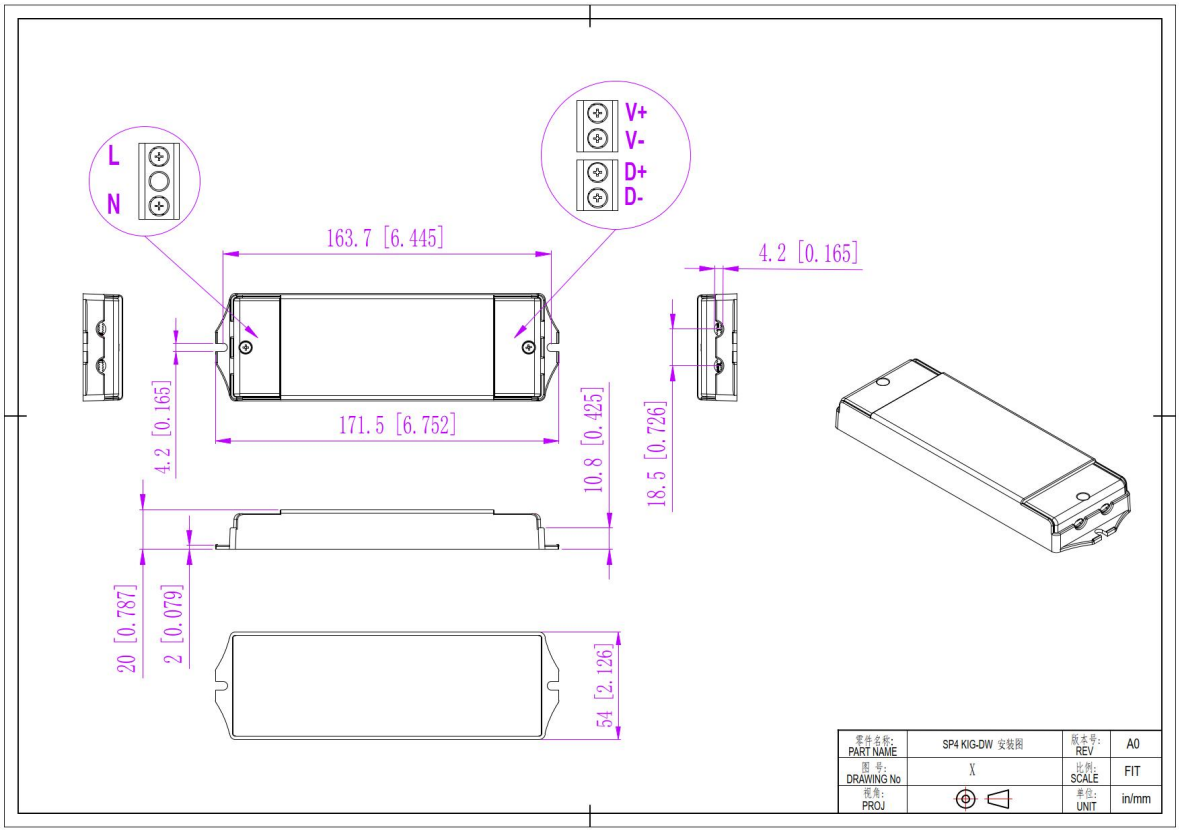

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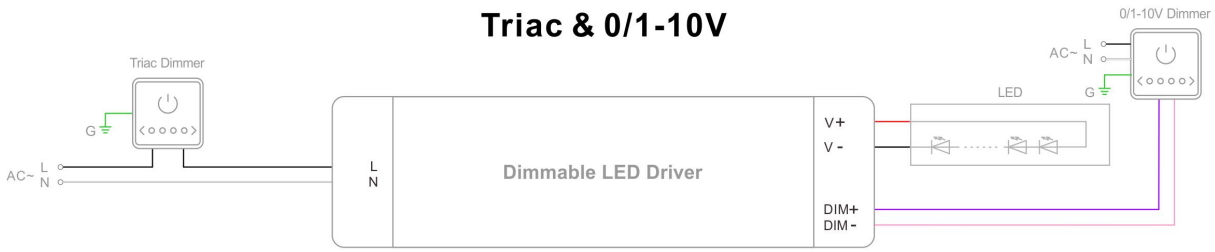

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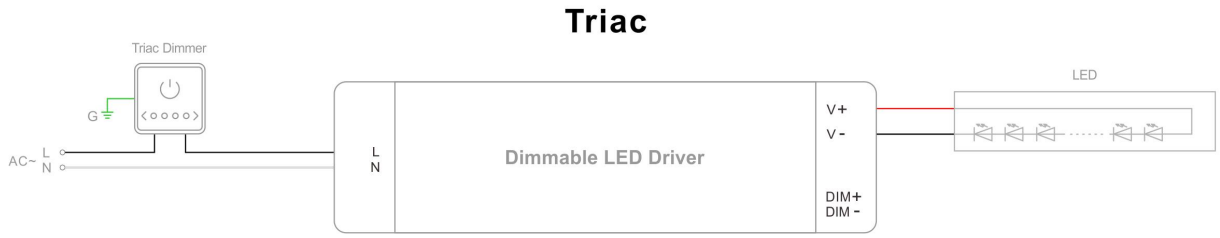

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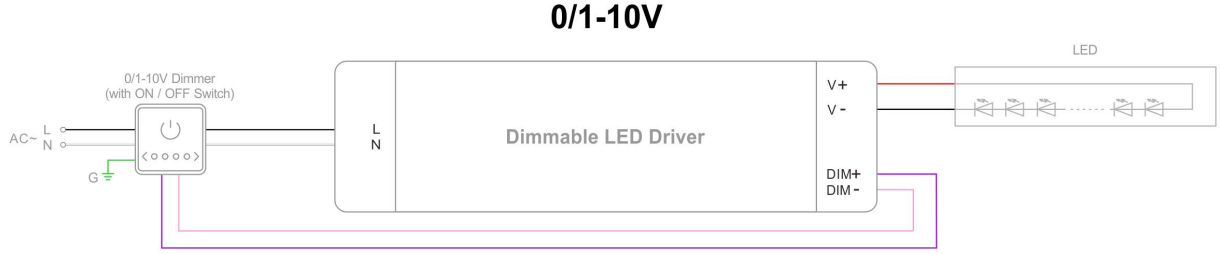

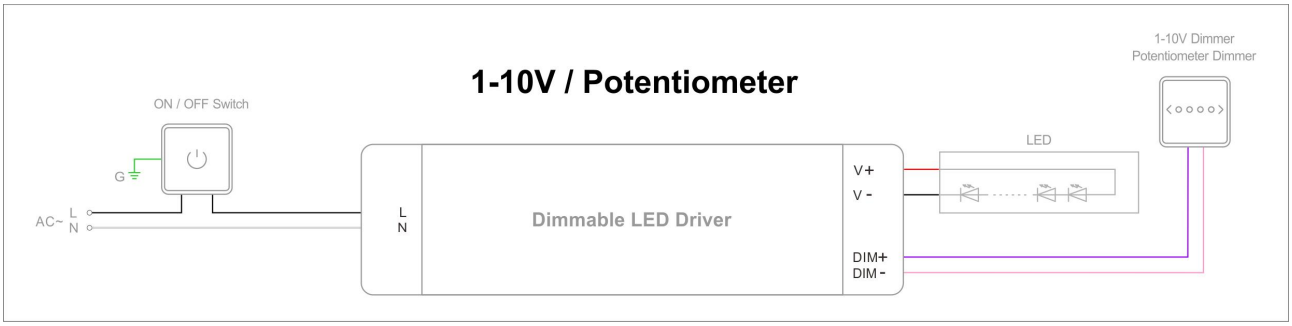

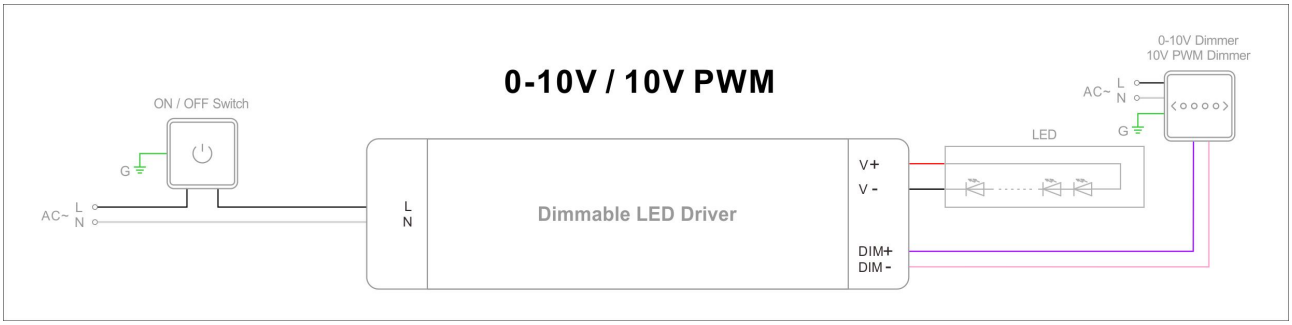

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