REQUEST QUOTE NOW

Customer: Date:

Project:

POWER SUPPLY

GLLS-24096-DWJ

TEMPERATURES

WORKING TEMPERATURE:
-13°F to 104°F (-25°C to +40°C)
Cooling by free air convection

FIXTURE STORAGE TEMPERATURE:
-40°F to 176°F (-40°C to 80°C)
Humidity 10–95% RH

WORKING HUMIDITY:
20–95% RH, Non-Condensing

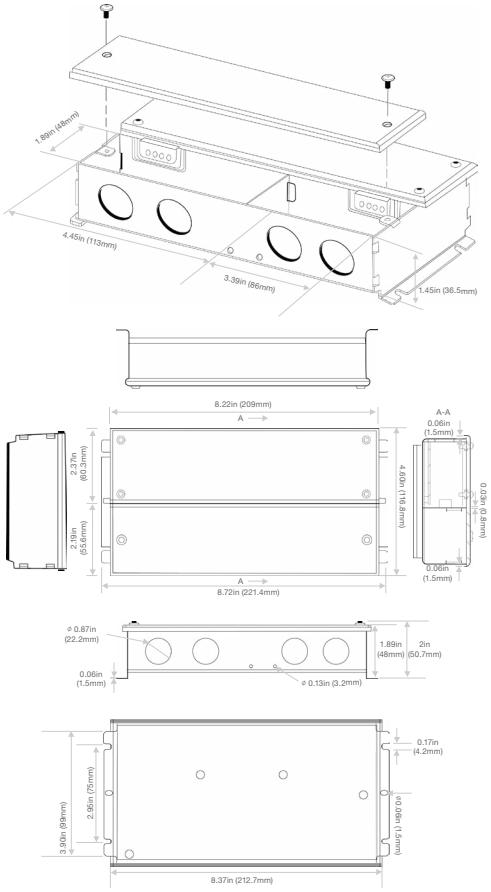
TEMPERATURE COEFFICIENT:
±0.03%/°C (0°C–50°C)

CERTIFICATIONS & FEATURES

24 DC

5 YEAR WARRANTY

DIAGRAM



Notes:
1. All parameters NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature.
2. Tolerance: includes set us tolerance, line regulation and load regulation.
3. Any other request can be customized.

CONSTANT VOLTAGE DIMMABLE LED DRIVER

OUTPUT

Voltage Tolerance	±0.5V
Voltage Regulation	±0.5%
Rated Current	4A
Load Regulation	±1%
Rated Power	96W

INPUT

Voltage Range	120VAC
Input Power	100-227 VAC, 50-60 Hz, 1.3A max.
THD (Typ. @ Full Load)	<20%@120VAC
AC Current (Max.)	1.3A
Frequency Range	50-60Hz
Inrush Current	20A, 1.6ms@50% 120VAC
Leakage Current	<0.50mA
Power Factor (Typ.)	>0.95
Efficiency (Typ. @ Full Load)	≥83%@120VAC, full load, with maximum efficiency up to 86%

PROTECTION

Over Temperature	100°C±10°C shuts down o/p voltage, auto-recovery after cooling
Short Circuit	Shuts down o/p voltage, re-power to recover after fault condition removed
Over Loading	≤120% constant current limiting, auto-recovery after fault condition removed

ENVIRONMENT

Vibration	10–500Hz, 5G, 12min/cycle for 72 min each along X,Y,Z axes
Application	Suitable for LED lighting and interactive sign applications

SAFETY & EMC

Safety Standards	UL379 (Rated for Aqua Neon UL676)
Withstand Voltage	I/P–O/P: 1.8KVAC I/P-FG:1.8VAC O/P-FG 1.8KVAC
Isolation Resistance	I/P–O/P: 100MΩ/500VDC/25°C/70%RH
EMC Emmission	FCC 47 CFR Part 15, Subpart B

OTHER INFORMATION

Weight	1.6Kg
Enclosure Size (LxWxH)	8.7" x 4.6" x 2" (221mm x 116.8mm x 50.7mm) (L*W*H)
Packaging	10 pcs / CTN
Built-in PFC, Dimming Range, Load, Location Suitability	Built-in junction box / Dimming range: 0–10% / Minimum Load:10% / Dry, damp, wet locations
Dimming Function	Phase Dimming: Compatible with forward phase, magnetic low voltage (MLV), reverse phase, electronic low voltage (ELV), and TRIAC dimmers. 0–10V dimming: 0–10V / 1–10V / Potentiometer / 10V PWM 4-in-1.
Dimming Features	Title 24 JA8 compliant, 20kHz PWM frequency, flicker-free
PFC Design	Built-in active PFC function

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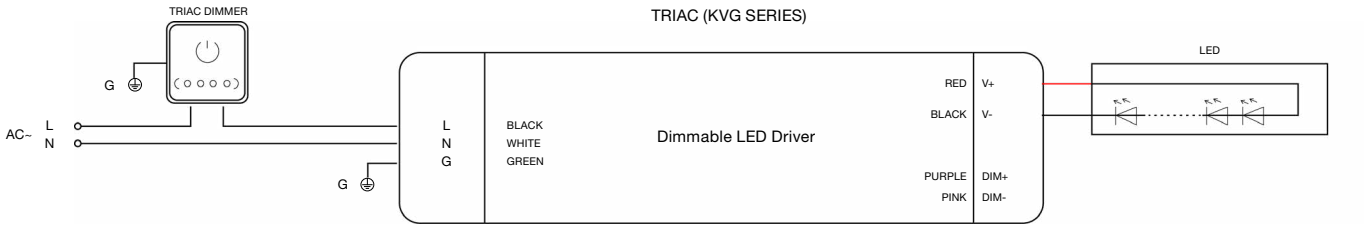
COMPLEXITY, SIMPLIFIED.

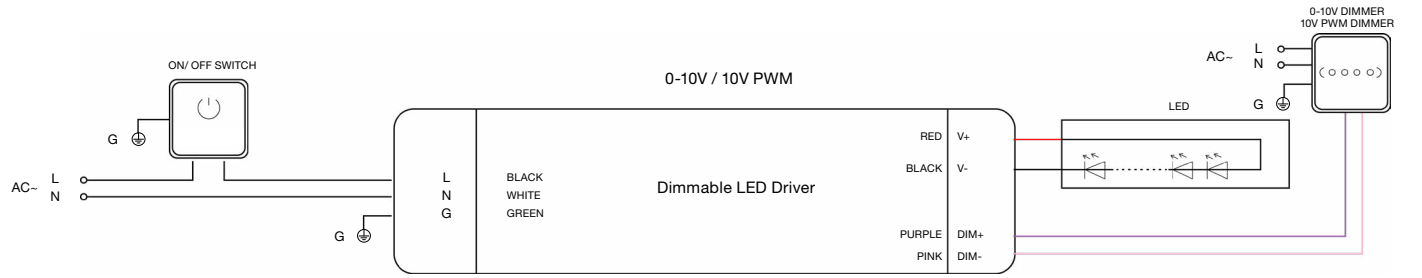
- For the input cable, connect the Green wire to (G), the Black wire to (L), and the White wire to (N) of the AC mains.
- For the output cable, connect the Red wire (+) to the LED positive terminal (+) and the Black wire (–) to the LED negative terminal (–).
- For the dimming cable, connect the Purple wire DIM (+) to the 0/1–10V dimmer signal (+), and the Pink wire DIM (–) to the 0/1–10V dimmer signal (–).
- Please DO NOT connect “DIM-“ to “LED-“, “DIM+” to “ LED+” ,or other incorrect connection.
- Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.
- If not using the dimming cable, secure each unused wire with a wire nut or equivalent terminating hardware.

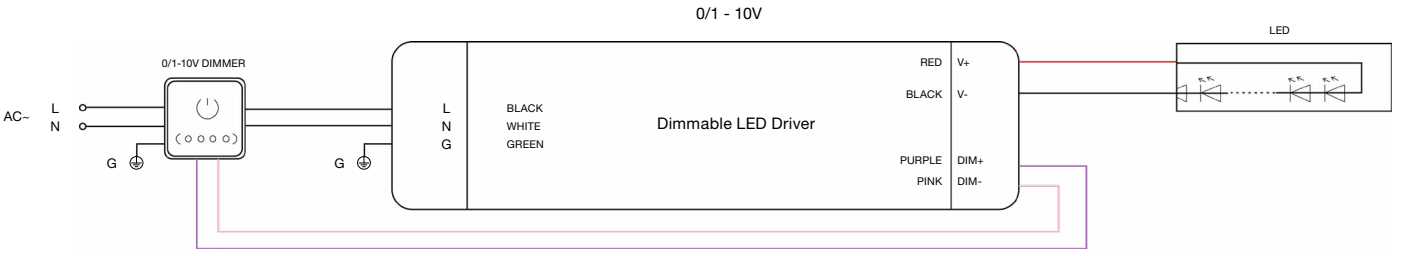
USING TRIAC/PHASE CUT DIMMING

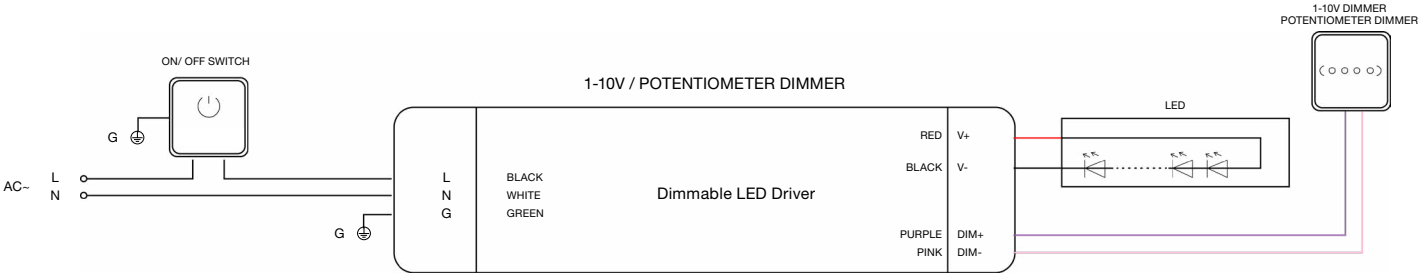
1. The Pulse-Width Modulation (PWM) output voltage can be adjusted through the input terminal of the AC phase line (L) by connecting a phase/TRIAC dimmer (lighting system).
2. Works with forward phase/leading edge, MLV and reverse phase/trailing edge, ELV, and TRIAC dimmers.
3. Please try to use dimmers with power at least 1.5 times the output power of the driver.



USING 0–10V / 1–10V / 10V PWM / POTENTIOMETER DIMMING







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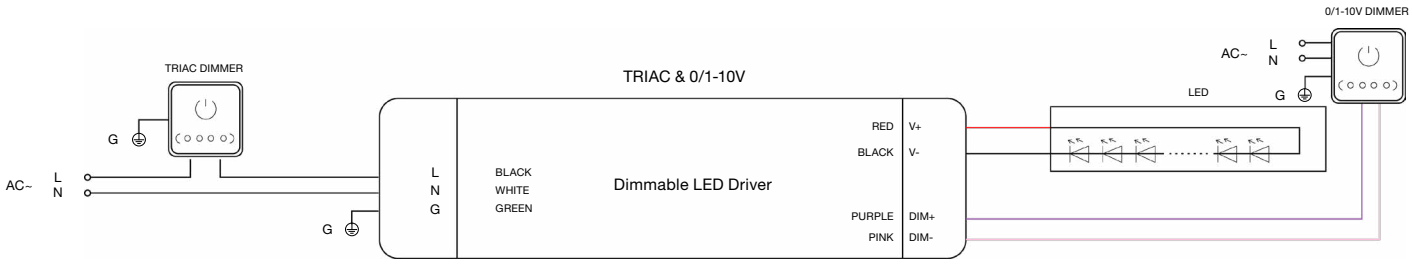
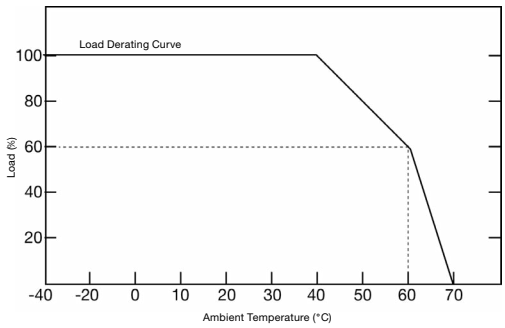
COMPLEXITY, SIMPLIFIED.

USING TRIAC/PHASE CUT DIMMING & 0–10V / 1–10V / 10V PWM / POTENTIOMETER DIMMING

When using the two dimming methods simultaneously, ensure that the LED lighting is first set to maximum brightness before operating the second dimming control.



DERATING CURVE (OUTPUT LOAD VS TEPMPERATURE)



To extend their lifespan, please refer to the Derating Curve and adjust the load according to the operating temperature.

Be aware that the temperature rise of LED fixtures over time can increase their power consumption. We recommend reserving a portion of the power supply's load capacity to prevent overloading.

INSTRUCTIONS

1. This driver should be installed by a qualified and professional person
2. Make sure the driver is installed with adequate ventilation to allow for heat dissipation
3. Ensure all wiring is correct before testing in order to avoid light and power supply damage
4. If the dimmable LED drivers do not perform normally, do not maintain privately. Contact us at: support@glls.com or 1-888-580-6366