



POWER SUPPLY

PS-012-180VTD52JV2



TEMPERATURES

WORKING TEMPERATURE:
-40°F to 140°F (-40°C to +60°C)
Cooling by free air convection

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

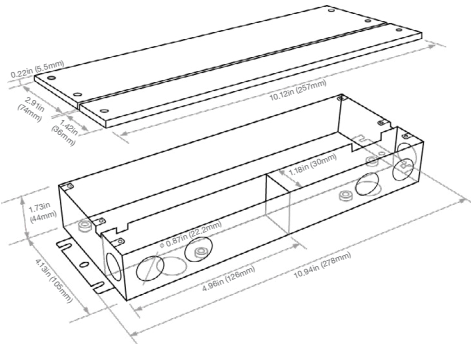
WORKING HUMIDITY:
20-90% RH, Non-Condensing

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

CERTIFICATIONS & FEATURES



DIAGRAM



CONSTANT VOLTAGE DIMMABLE LED DRIVER

OUTPUT

Voltage Accuracy/ Tolerance	±0.5V
Voltage Regulation	±0.5%
Rated Current	3*5A
Load Regulation	±1%
Rated Power	180W (3*60W)

INPUT

Voltage Range	100-277VAC
Input Power	206.8W@110VAC, 201.2W@230VAC, 200.4W@277VAC
THD (Typ. @ Full Load)	<20%
AC Current (Max.)	2.2A / 100VAC
Frequency Range	47-63Hz
Inrush Current	1.870A@110VAC, 0.904A@230VAC, 0.767A@277VAC
Leakage Current	<0.50mA
Power Factor (Typ.)	0.99@120VAC, 0.94@277VAC
Efficiency (Typ. @ Full Load)	86%@120VAC / 88%@277VAC

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 is removed
Over Loading	≤120% constant current limiting, auto-recovery after fault condition is removed
Over Current	≤1.4*I out

ENVIRONMENT

Vibration	10-500Hz, 2G, 10 min/cycle for 60 min on X,Y,Z axes
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SAFETY & EMC

Safety Standards	UL8750 - UL - cUL Listed - Class 2, Type HL Standard - FCC - NEMA 4x Rated
Withstand Voltage	I/P-O/P: 1.88KVAC
Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
EMC Emission	FCC Part 15 B

OTHER INFORMATION

Weight	~2.3Kg
Enclosure Size (LxWxH)	10.94" x 4.33" x 1.77" (278mm x 110mm x 45mm) (L*W*H)
Packaging	13.39" x 8.27" x 9.65" (340mm x 210mm x 245mm) / 10 pcs / Carton G.W.: 22.5KG/CTN
Built-in PFC, Dimming Range, Load Range, Location Suitability	Built-in PFC (PF>0.99) / Dimming range: 0-100% / Load: 10-100% / Dry, damp, wet locations
Dimming	0-10V/1-10V/Potentiometer/10V PWM/Phase-Cut (Forward, Reverse, MLV, ELV, TRIAC)

Notes:

1. All parameters NOT specially mentioned are measured at 110V/ 277VAC input, rated load and 25°C of ambient temperature.
2. Tolerance: includes set up tolerance, line regulation and load regulation.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.
4. Flicker-Free PWM output - does not change the color index.

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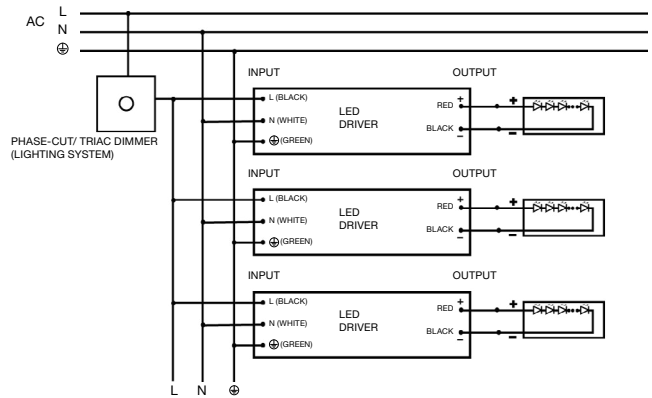
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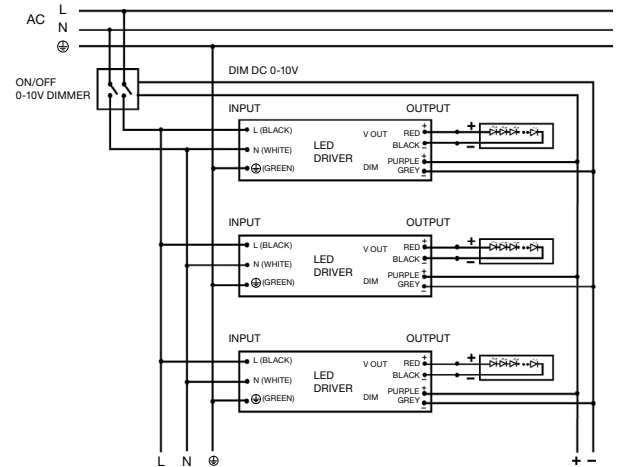
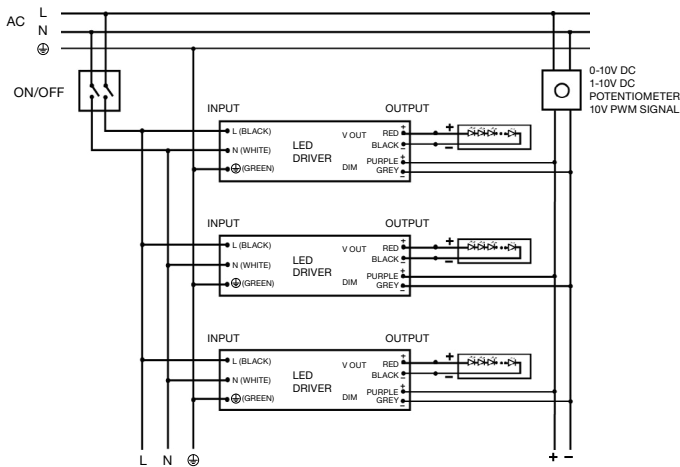
- Input wires Black and White to be connected to AC L and N, Green wire to be connected to ground.
- Output wire Red to LED positive side (+), Black to LED negative side (-).
- Dimming cable DIM (+) Purple to 0/1-10V dimmer signal (+), DIM (-) Grey to 0/1-10V dimmer signal (-).
- Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

USING TRIAC/PHASE CUT DIMMING

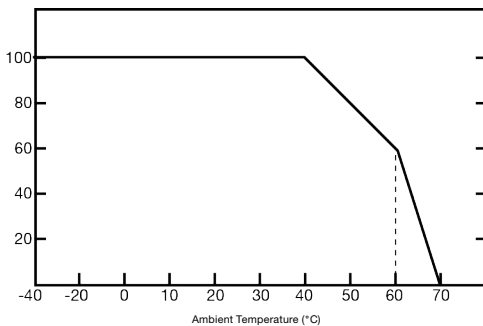
1. The Pulse-Width Modulation (PWM) output voltage can be adjusted through the input terminal of the AC phase line (L) by connecting a phase/TRIAC dimmer (lighting system).
2. Works with forward phase/leading edge, MLV and reverse phase/trailing edge, ELV, and TRIAC dimmers.
3. Please try to use dimmers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



USING 0-10 / 1-10V DIMMING



DERATING CURVE



Load carried in accordance with the derating curve, according to the ambient temperature, in order to extend the working life.

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



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GLLS reserves the right to make any design changes for continuous improvement which will not affect the overall appearance or performance. REV 20250904