



POWER SUPPLY

PS-012-300VTD



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

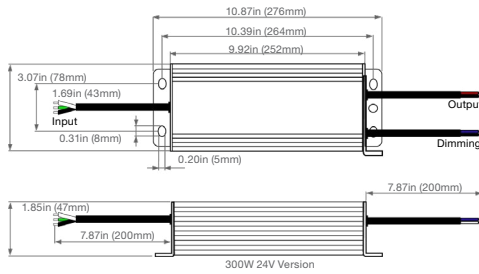
WORKING HUMIDITY:
20–95% RH, Non-Condensing

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

CERTIFICATIONS & FEATURES



DIAGRAM



CONSTANT VOLTAGE DIMMABLE LED DRIVER

OUTPUT

Voltage Accuracy	±0.5V
Voltage Regulation	±0.5%
Rated Current	25.0A
Load Regulation	±2%
Rated Power	300W

INPUT

Voltage Range	100–277VAC
Input Power	345W@110VAC, 336W@230VAC, 334W@277VAC
THD (Typ. @ Full Load)	<20%
AC Current (Max.)	3.4A
Frequency Range	47–63Hz
Inrush Current	3.1A@110VAC, 1.5A@230VAC, 1.24A@277VAC
Leakage Current	<0.50mA
Power Factor (Typ.)	0.98@120VAC, 0.97@277VAC
Efficiency (Typ. @ Full Load)	86%@120VAC / 88%@277VAC

PROTECTION

Over Temperature	100°C±10°C shuts down o/p voltage, automatically recovers 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

ENVIRONMENT

Vibration	10–500Hz, 5G, 10 min/cycle for 60 min on X,Y,Z axes
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SAFETY & EMC

Safety Standards	UL8750, CAN/CSA-C22.2 No. 250.13
Withstand Voltage	I/P–O/P: 1.88KVac
Isolation Resistance	I/P–O/P: 100MΩ/500VDC/25°C/70%RH
EMC Emission	FCC 47 CFR Part 15, Subpart B

OTHER INFORMATION

Weight	~1.7Kg
Enclosure Size (LxWxH)	7.4" x 3.72" x 1.57" (276mm x 78mm x 47mm) (L"W"H)
Packaging	12.95" x 10.98" x 6.93" (329mm x 279mm x 176mm) (L"W"H) 10 pcs / 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. The power supply is considered as a component that will be operated in combination with final equipment.
4. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must be qualify EMC Directive on the complete installation again.

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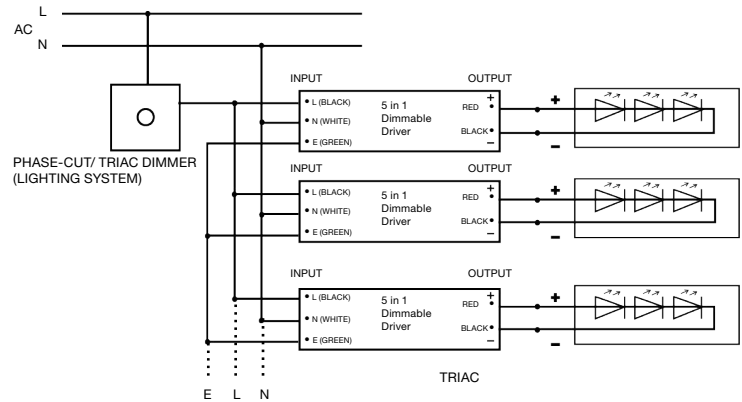
PS-012-300VTD



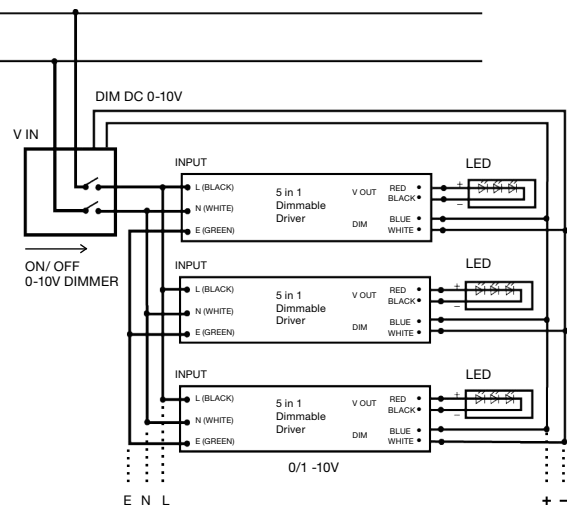
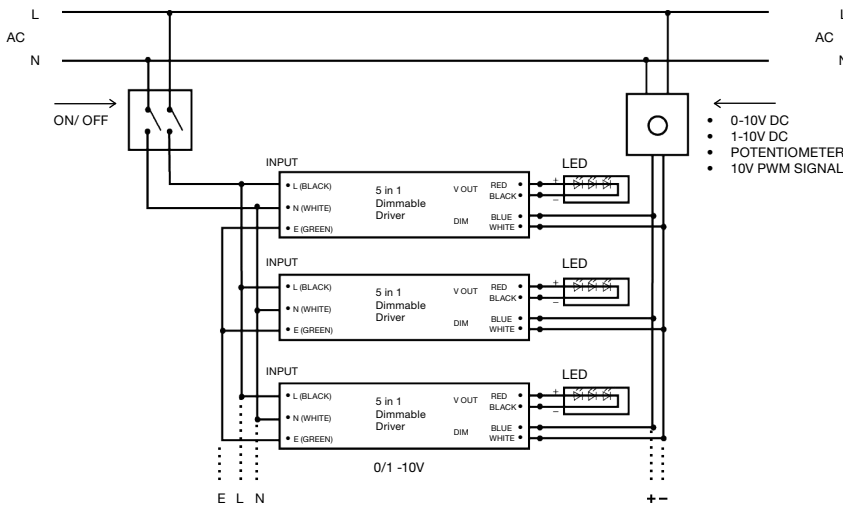
- Input cable 3*18AWG, the green cable to (FG) "Black" to L, and "White" to N of Mains AC.
- Output cable 2*14AWG, "Red" (+) to LED Positive side (+), "Black"(-) to LED Negative side (-). Noted that 12V 300W is with 2 groups of 2*14AWG output wires to separate the output current.
- Dimming cable 2*18AWG, DIM (+) Purple to 0/1-10V dimmer signal(+), DIM (-) Grey to 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.

USING TRIAC/PHASE CUT DIMMING

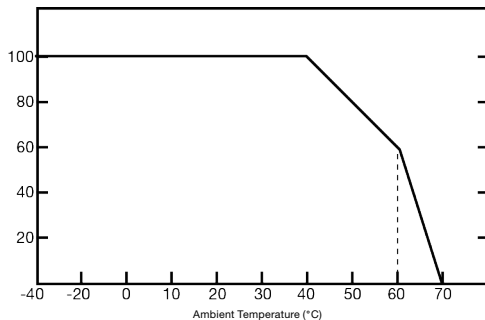
1. The Pulse-Width Modulation (PWM) output voltage can be adjusted through the input terminal of the AC phase line (L) by connecting a phase/TRIAC dimmer (lighting system).
2. Works with forward phase/leading edge, MLV and reverse phase/trailing edge, ELV, and TRIAC dimmers.
3. Please try to use dimmers with power at least 1.5 times the output power of the driver.
4. Min loading is about 10%.



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 20250910