Multiple Output Class 2
Triac-Dimming Constant Voltage
12Vdc / 24Vdc Power Supply

Prism Lighting Group

FEATURES

- 12Vdc / 24Vdc, 180W/192W
- LED driver UL/cUL, FCC, Class 2, Mutli-Output , Class P, Type HL standard
- Triac-Dimmable
- Output constant voltage
- Input voltage range: 100-277VAC
- Built-in PFC function / PF>0.99
- Efficiency >89% / Dimming range: 0~100% / Load: 10-100%
- Protections:short circuit/over voltage/over heat
- Full protection aluminum housing, for dry and damp location
- Cooling by free air convection
- Strong compatibility, flicker-free, PWM output
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- 7 years warranty

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SPECIFICATIONS

PRODUCT NUMBER	5030-PSU-3x60W12V-TRI-DIM-CL2	5030-PSU-2x96W24V-TRI-DIM-CL2
DC Voltage	12V	24V
Voltage Accuracy	± 0.5V	± 0.5V
Rated current	15A (multi current 3*5A)	8A(multi current 2*4A)
Rated Power	180W (3*60W)	192W (2*96W)
Voltage Range	100-277V AC	100-277V AC
Frequency Range	47~63HZ	47~63HZ
Power Factor (Typ.)	0.95@120VAC 0.95@277VAC	0.99@120VAC 0.96@277VAC
Full Load Efficiency (Typ.)	86%@120VAC 90%@277VAC	87%@120VAC 89%@277VAC
AC Current (Typ.)	3.6A @100VAC	3.4A@100VAC
THD(Typ.) at full load	<20%	<20%
Inrush Current (Typ.)	35A (twidth=960us) @120VAC ; 43A (twidth=1ms) @277VAC	
Leakage Current	<0.50mA	
Short Circuit	Shut down o/p voltage, re-power on to recover after fault condition is removed	
Over Temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling	
Over Loading	≤120% constant current limiting, auto-recovery	
Working Temperature	-40 ~ +60°C	
Working Humidity	20~90%RH, non-condensing	
Storage Temp & Humidity	-40 ~ +80°C 10 ~ 95%RH	
TEMP. Coefficient	±0.03%/°C (0 ~ 50°C)	
Vibration	10~ 500Hz, 2G 10min./1 cycle, period for 60min., each along X,Y,Z axis	
Safety standards	UL8750+UL1310	
Withstand Voltage	I/P-O/P:1.88KVAC	
Isolation resistance	I/P-O/P: 100M±Ω/500VDC/25°C/70%RH	
EMC EMISSION	FCC 47 CFR Part 15 ,Subpart B	
Warranty	7 Years	
Weight	2.2Kg	
Dimensions	301x108x46mm (LxWxH)	

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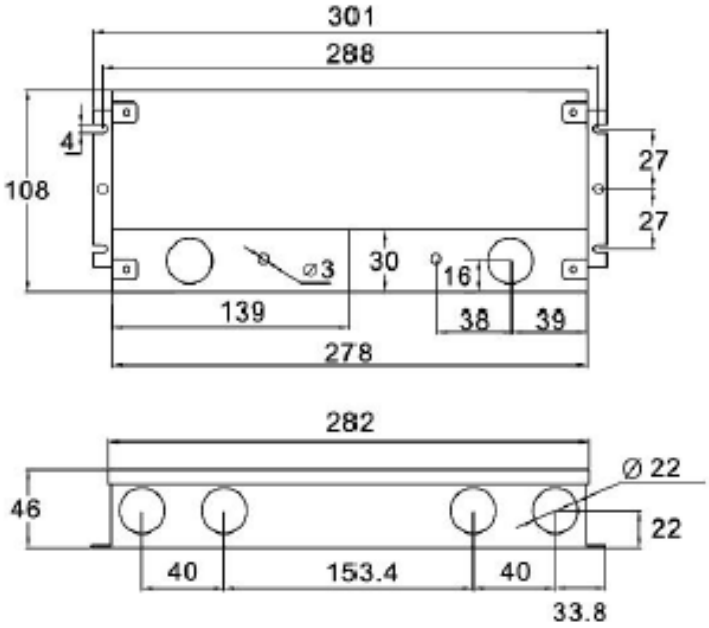
NOTES

1. All parameters are NOT specifcially mentioned are measured at 110VAC & 277VAC input , rated load and 25°C of ambient temperature
2. Tolerance: includes set us tolerance, line regulation and load regulation.

MECHANICAL SPECIFICATIONS

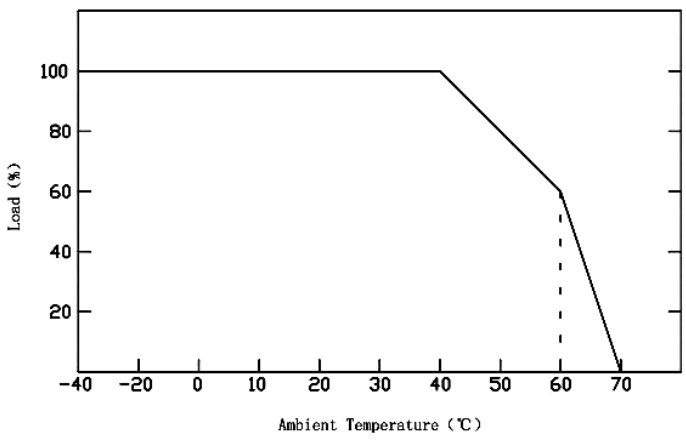


- Input:18AWG Black and White to be connected to AC L and N, Green wire go ground,
- Output power cord: 2*16AWG, “Red” (+) to LED Positive side (+), “Black”(-) to LED Negative side (-).
- **Note:** 5 Outputs for 5030-PSU-3x60W12V-TRI-DIM-CL2; 3 Outputs for 5030-PSU-2x96W24V-TRI-DIM-CL2

DIMMING OPERATION

- 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.
- Compatible with Forward phase , leading edge , Magnetic low voltage, triac dimmers, or Reverse phase, trailing edge ,Electric low voltage Dimmers.
- Recommending sizing dimmers with power at least 1.5 times as the output power of the driver.
- Please refer to Prism compatible dimmer list.

DERATING CURVE



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

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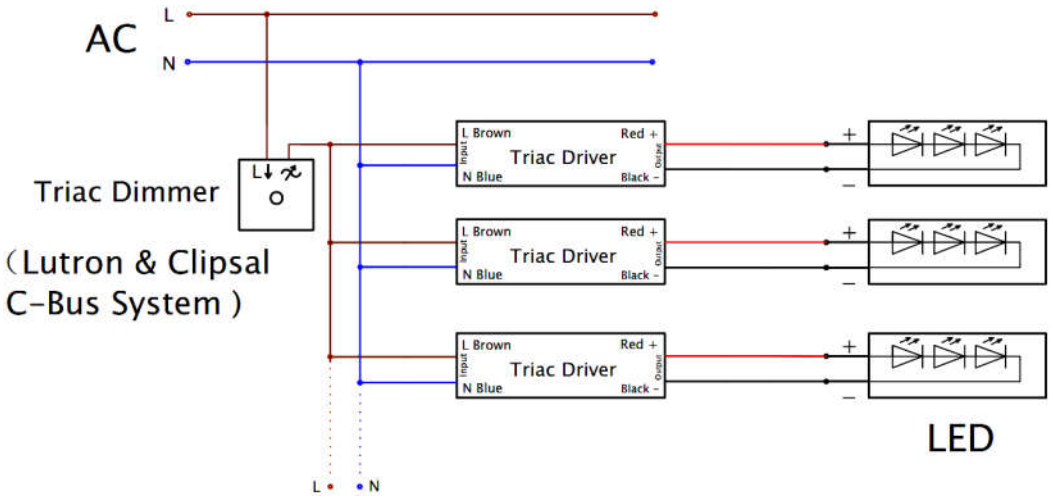
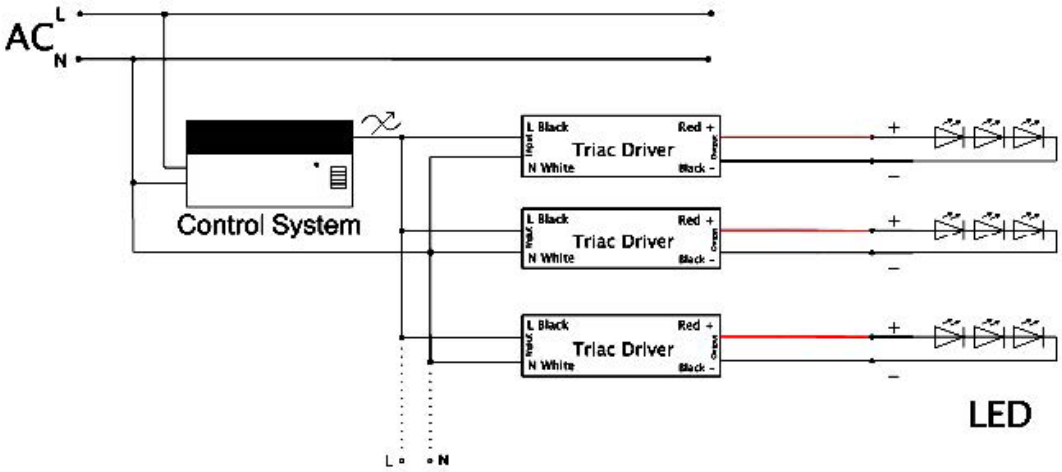
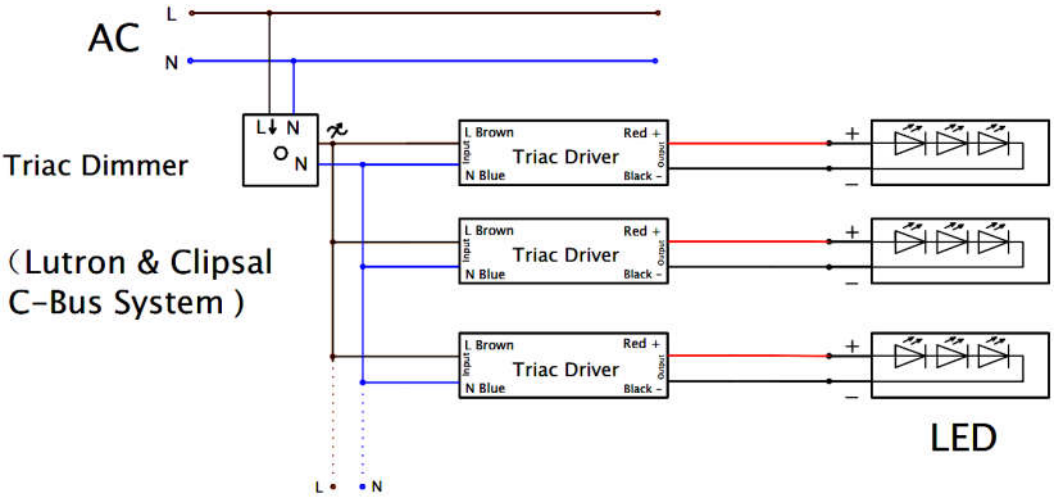
CONNECTING DIAGRAM







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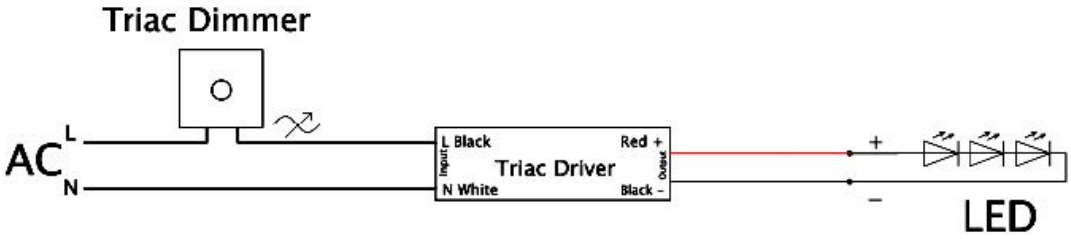
SIMPLE CONNECTION DIAGRAM



INSTRUCTIONS

- Driver should be installed by qualified electrician;
- Please make sure the driver is installed with adequate ventilation to allow for heat dissipation.
- Ensure that wiring is correct before energizing in order to avoid light and/or driver damage;
- If the LED driver does not work properly, contact us by email at info@prismlightinggroup.com, by phone 1-866-620-1380 to get technical support or visit our offcial Website: www.PrismLightingGroup.com