DALI 2 & PUSH Dimmable LED Driver

60W Slimline Constant Voltage Series

TIGER Power Supplies

IP20 SELV

■ Features：

·Output constant Voltage

·Range: 100-277VAC

·Built-in active PFC function

·Efficiency up to 88%

·Protections: short circuit/over load/ over temperature

·Cooling by free air convection

·IP20 design for indoor installation.

·Dimming function: Built in DALI interface dimming function conform to DALI Protocol IEC62386

·Push dimming function

·Dimming range: 0-100%, LED start at 0.1% possible

·Suitable for intelligent LED lighting

■ Specification

Model		TGR-DALI-60W-12-T	TGR-DALI-60W-24-T
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Rated current	5A	2.5A
	Rated power	60W	
	Load Regulation	±2 %	
Input	Voltage Range	100-277VAC	
	Frequency Range	47 - 63Hz	
	Power Factor(Typ.)@ full load	0.98@120VAC	0.98@120VAC
	THD(Typ.) @ full load	10%@120VAC	10%@120VAC
	Efficiency(Typ.)@ full load	86%	88%
	AC Current(Max.)	0.73A@100VAC	
	Inrush Current (Typ.)	3A (twidth=220us) @120VAC ; 34A (twidth=121us) @230VAC ; 12.4A (twidth=680us) @277VAC ;	
	Leakage current	<0.5mA	
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed	
	Over Load	≤120% Hiccup mode ,recovers automatically after fault condition is removed or shut down o/p voltage, re-power on to recover after fault condition removed	
	Over temperature	100℃±10℃ shut down o/p voltage, automatically recover after cooling.	
	Protection Class	II	
Environment	Working TEMP.	-40~+60℃ (see below derating curve)	
	Working Humidity	20 - 95%RH, non-condensing	
	Storage TEM.,Humidity	-40 - +80℃,10 - 95%RH	
	TEMP.coefficient	±0.03%/℃(0 - 50℃)	
	Vibration	10～500Hz, 5G 10min./1 cycle,period for 60min. each along X,Y,Z axes	
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13 (EU) and UL8750 (US)	

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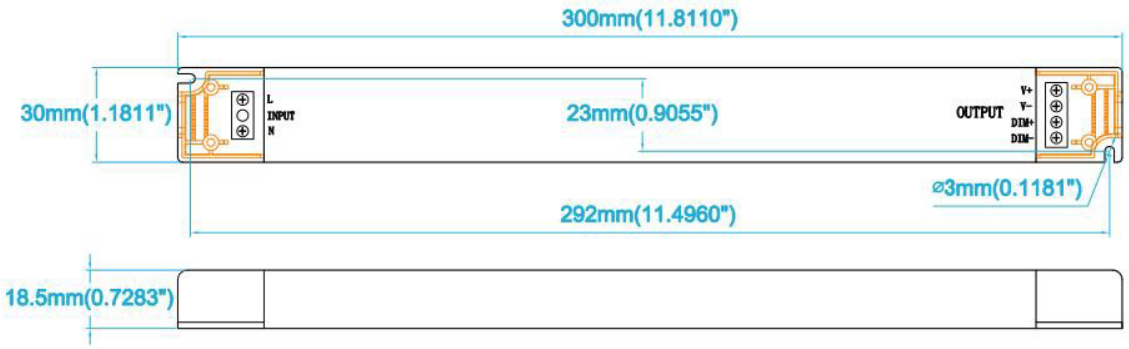
	Withstand voltage	I/P-O/P:3.75KVAC (EU) and I/P-O/P:1.88KVAC (US)
	Isolation resistance	I/P-O/P：100M Ohms/500VDC/25℃/70%RH
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 (≥60%load) (EU) and FCC Part 15 (US)
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, EN61547, light industry
Others	Net Weight	0.25Kg
	Dimension	300*30*18.5mm (L*W*H)
	packing	330*330*130mm/50PCS/CTN G.W.:13.60KG/CTN
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25℃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. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC Directive on the complete installation again.	

■ Mechanical Specification

Unite: mm Tolerance:P 0.5-2mm



Input & Output wiring

※Input terminal with Live Wire(L) , Neutral Wire (N)

※Output LED SEC (LED+), output negative (LED). Connected to LED Lamps

Dimming wiring

※Dimming wires are installed for Dimming terminals (No polar) and are connected to the DALI BUS when use DALI function . wire (N) is connected to AC (N) while and wire (L) is connected to Push dim switch dimmer(L) when use Push function.

※Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

※Note:

Any other requests we can customize.

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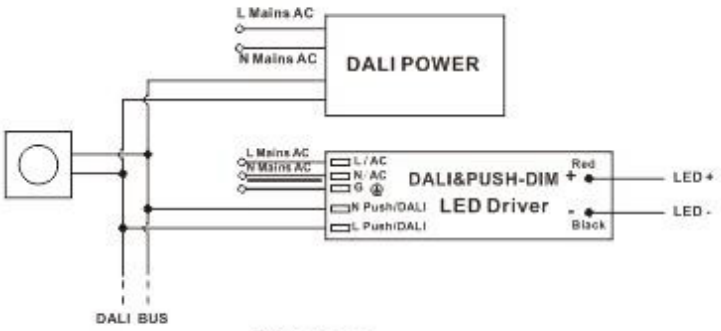
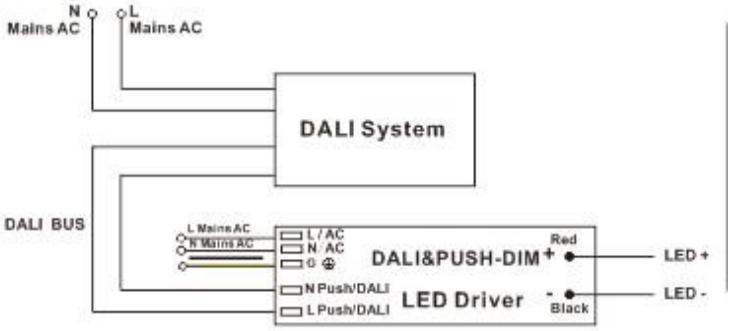
Dimming Operation

DALI Dimming Wiring Diagram1



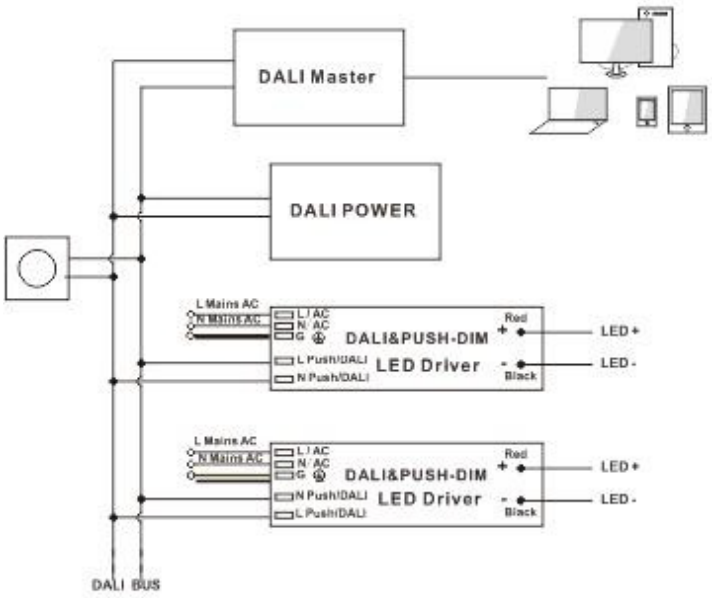
Dimmer

DALI Dimming Wiring Diagram2



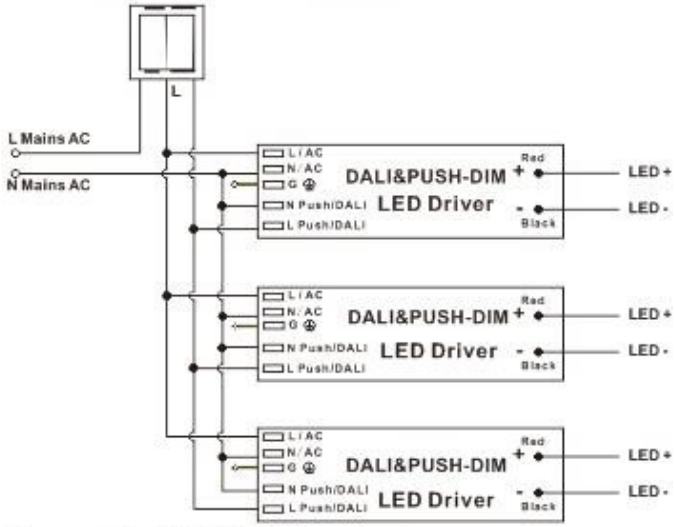
System

DALI Dimming Wiring Diagram3



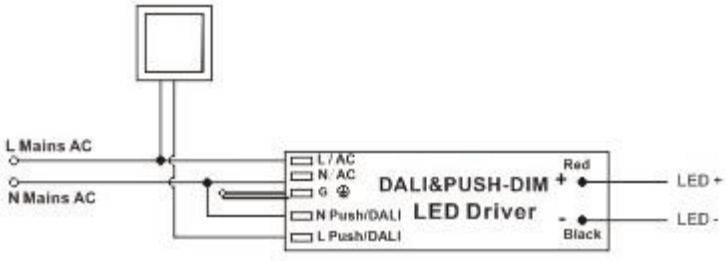
PC+DALI Master+DIMMER

Push-Dimming Wiring Diagram1



Dimmer (with ON/OFF function)

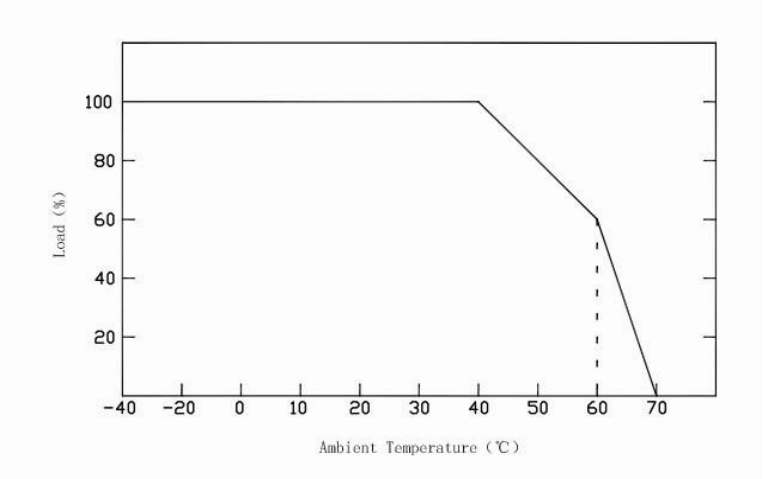
Push-Dimming Wiring Diagram2



Dimmer

※Note: For DALI Dimming Wiring Diagram 3, please noted that only one DALI power is need in the DALI bus, so no extra DALI power is needed if the Master or Dimmer already includes the DALI Power.

■ Derating Curve



※To extend their life, please refer to the Derating Curve and derate according to the temperature.

■ Instruction:

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 please contact us.