

Triac Dimmable Waterproof LED Driver

Triac/Forward and Reverse phase (leading and trailing edge)/MLV/ ELV dimmer

Features :

- Input Voltage: 100-277VAC
- Power Range: 30W-300W
- High Efficiency: up to 92% ; PF>0.9
- IP67 waterproof Design; Flicker-free
- Cooling by free air convection
- Suitable for dry or damp location use
- Protection: Short Circuit/Over Loading/Over Current/ Over Temperature
- 5 years warranty



SELV

S/N	Power	Model No.	Input Voltage	Output Voltage	Output Current	PF	Product Size (mm)	IP Grade	Warranty
1	30W	TGR-DIM-12V30W-IP67 TGR-DIM-24V30W-IP67	100-277Vac	12V 24V	2.5A 1.25A	>0.9	175*44*32	IP67	5 years
2	40W	TGR-DIM-12V30W-IP67 TGR-DIM-24V30W-IP67	100-277Vac	12V 24V	3.33A 1.67A	>0.9	175*44*32	IP67	5 years
3	45W	TGR-DIM-12V30W-IP67 TGR-DIM-24V30W-IP67	100-277Vac	12V 24V	3.75A 1.875A	>0.9	175*44*32	IP67	5 years
4	50W	TGR-DIM-12V30W-IP67 TGR-DIM-24V30W-IP67	100-277Vac	12V 24V	4.17A 2.08A	>0.9	180*56*35	IP67	5 years
5	60W	TGR-DIM-12V30W-IP67 TGR-DIM-24V30W-IP67	100-277Vac	12V 24V	5A 2.5A	>0.9	180*56*35	IP67	5 years
6	80W	TGR-DIM-12V30W-IP67 TGR-DIM-24V30W-IP67	100-277Vac	12V 24V	6.67A 3.33A	>0.9	200*68*39	IP67	5 years
7	100W	TGR-DIM-12V100W-IP67 TGR-DIM-24V100W-IP67	100-277Vac	12V 24V	8.33A 4.17A	>0.9	200*68*39	IP67	5 years
8	120W	TGR-DIM-12V120W-IP67 TGR-DIM-24V120W-IP67	100-277Vac	12V 24V	10A 5A	>0.9	221*68*39	IP67	5 years
9	150W	TGR-DIM-12V150W-IP67 TGR-DIM-24V150W-IP67	100-277Vac	12V 24V	12.5A 6.25A	>0.9	221*68*39	IP67	5 years
10	200W	TGR-DIM-12V200W-IP67 TGR-DIM-24V200W-IP67	100-277Vac	12V 24V	16.7A 8.33A	>0.9	236*68*39	IP67	5 years
11	300W	TGR-DIM-12V300W-IP67 TGR-DIM-24V300W-IP67	100-277Vac	12V 24V	25A 12.5A	>0.9	265*80*43	IP67	5 years

■ Specifications

Protection	Short Circuit	Hiccup mode, recover automatically after fault condition is removed
	Over Current	$\leq 1.2 \times I_{out}$
	Over Loading	$\leq 120\%$
	Over temperature	$100^{\circ}\text{C} \pm 10^{\circ}\text{C}$, Shut down o/p voltage, recover automatically after temperature goes down.
Environment	Working TEMP.	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
	Working Humidity	20% ~ 90%RH, non-condensing
	Storage TEMP. Humidity	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 10% ~ 95%RH
	TEMP .coefficient	$\pm 0.03\%/^{\circ}\text{C}$ $0^{\circ}\text{C} \sim 50^{\circ}\text{C}$
	Vibration	10% 500Hz 2G 12min./1 cycle, period for 72min. each along X,Y,Z axes
Safety& EMC	Safety standards	EN61347-1 EN61347-2-13
	Withstand voltage	I/P-O/P:3KVAC IP-FG:1.88KVAC O/P-FG:0.5KVAC
	Isolation resistance	I/P-O/P I/P-FG O/P-FG:100M Ω /500VDC/25 $^{\circ}\text{C}$ /70%RH
	EMC EMISSION	EN55022, EN55015 Class B
Notes	1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25$^{\circ}\text{C}$ of ambient temperature. 2. To extend the driver's using life ,please reduce the loading at lower input voltage.	

■ Dimensions



(unit :mm)

S/N	Power	Product Size (mm)
1	30W-45W	175*44*32
2	50W	180*56*35
3	60W-100W	200*68*39
4	120W-150W	221*68*39
5	200W	236*68*39
6	300W	265*80*43

■ Driver Connecting Diagram



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 triac dimmer.
- ※Usually matching with leading edge/Forward Phase Triac Dimmers(Can customized as a driver only matching trailing edge/reverse phase Triac Dimmers if needed).
- ※Please try to use dimmers with power at least 2.5 times as the output power of the driver.
- ※For Forward phase,Magnetic low voltage and Triac Dimmers

Warning

- 1) This driver should be installed by qualified and professional person;
 - 2) Please make sure the transformer 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 our sales support team;
 - 5) Have any question, please contact us.
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