

Constant Voltage Phase/Triac Dimmable Driver **50W series** PWM Output

Features



- Output constant voltage
- Universal AC input: 100-130VAC
- Power Factor: up to 0.65
- High Efficiency: up to 84%
- Protection: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing
- Easy installation
- Cooling by free air convection
- Compatible with Forward phase, Magnetic low voltage, Triac Dimmers
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications and others
- Compliance to worldwide safety regulations for lighting



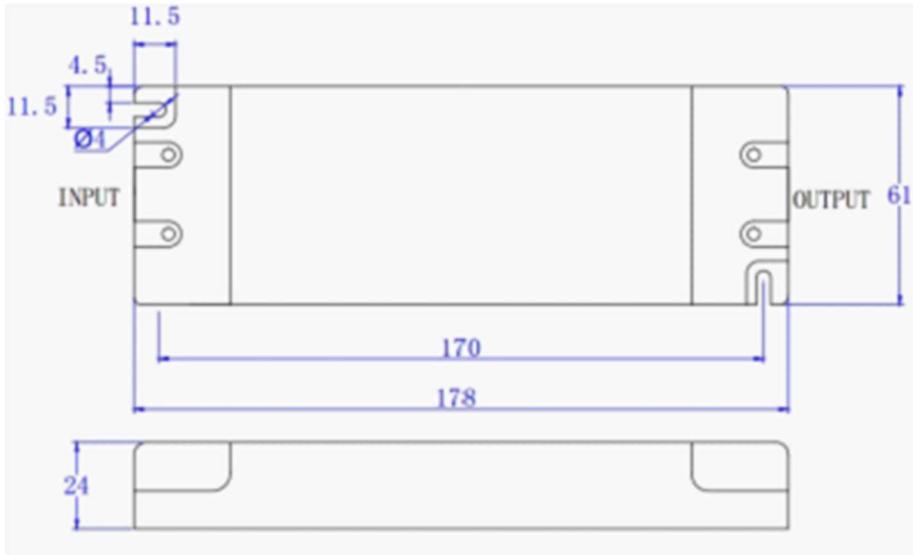
Specification

Model		ETD1250	ETD2450
Certificates		ETL, cETL, FCC	ETL, cETL, FCC
output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Rated current	4.17A	2.08A
	Rated power	50W	
input	Voltage Range	100~130VAC	
	Frequency Range	47~63HZ	
	Power Factor (Typ.)	PF≥0.65	
	Efficiency (Typ.)	83%	84%
	AC Current (Typ.)	1.6A	1.6A
	Leakage current	< 0.50mA/120VAC	
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed	
	Over Current	≤1.2*I out	
	Over Loading	≤120%	
	Over temperature	100°C±10°C (The output voltage will turn off when the temperature is higher than 100°C±10°C, after the temperature drop off, it will recovery automatic)	
Environment	Working TEMP.	-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 axes	
Safety& EMC	Safety standards	UL8750+UL1310	
	Withstand voltage	I/P-O/P:1500VAC	
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH	
	EMC EMISSION	FCC Part 15 B	
others	Net. Weight	0.85Kg	0.95Kg
	Size	350*77*26mm (L*W*H) J10	350*77*37mm (L*W*H) J12-3
	packing	385*335*200mm 20PCS/CTN	385*335*200mm 20PCS/CTN

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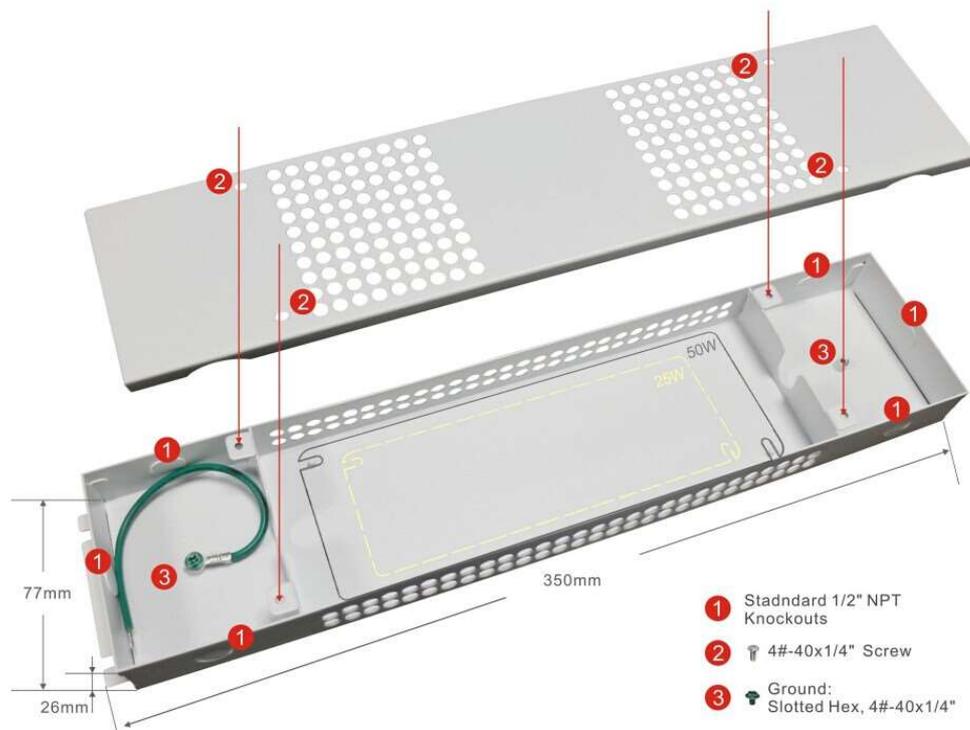
Notes	<ol style="list-style-type: none"> 1. All parameters if NOT specially mentioned are measured at 120VAC input, rated load and 25°C of ambient temperature. 2. To extend the driver's using life, please reduce the loading at lower input voltage. 3. Loading should be 5-100%.
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■ 50W Phase/Triac Dimmable driver Mechanical Specification



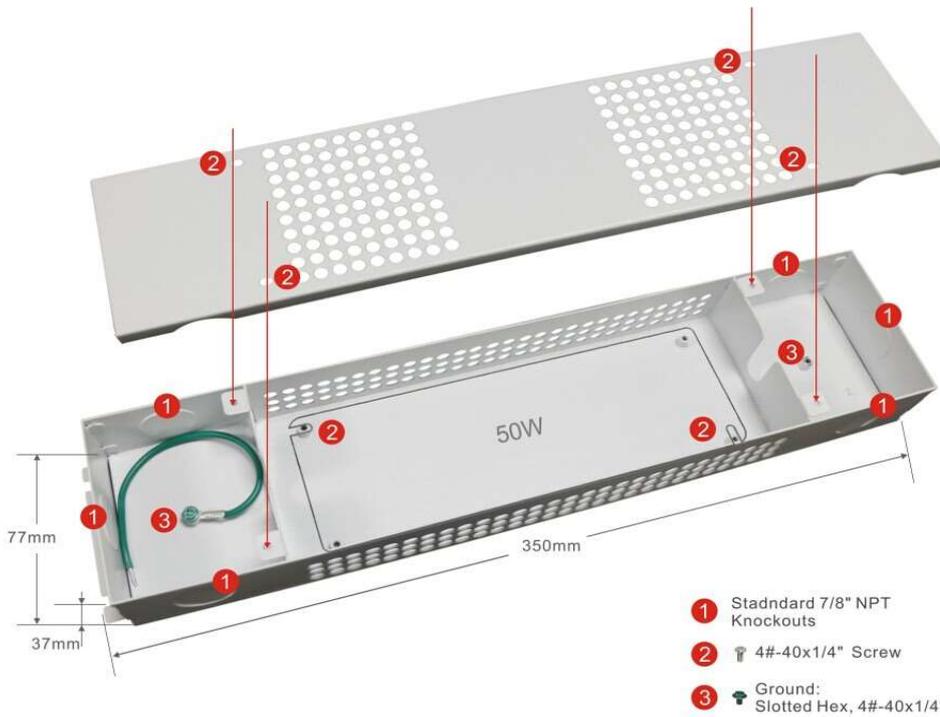
※ Input (L) and (N) with wires to be connected AC.

※ Output LED SEC : (LED+) (LED-)



- ① Standard 1/2" NPT Knockouts
- ② 4#-40x1/4" Screw
- ③ Ground: Slotted Hex, 4#-40x1/4"

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■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

※ 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

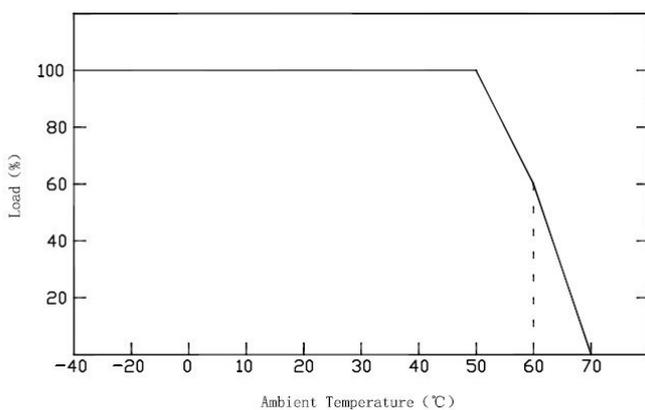
※Prevent to reverse polarity;

※Risk of Electric Shock. When used outdoors, install only on a circuit protected by a Class A GFCI;

※Risk of Fire. Installation involves special wiring methods to run wiring through a building structure. Consult a qualified electrician;

※Risk of Electric Shock. Mount the unit at a height greater than 1 foot from the ground surface.

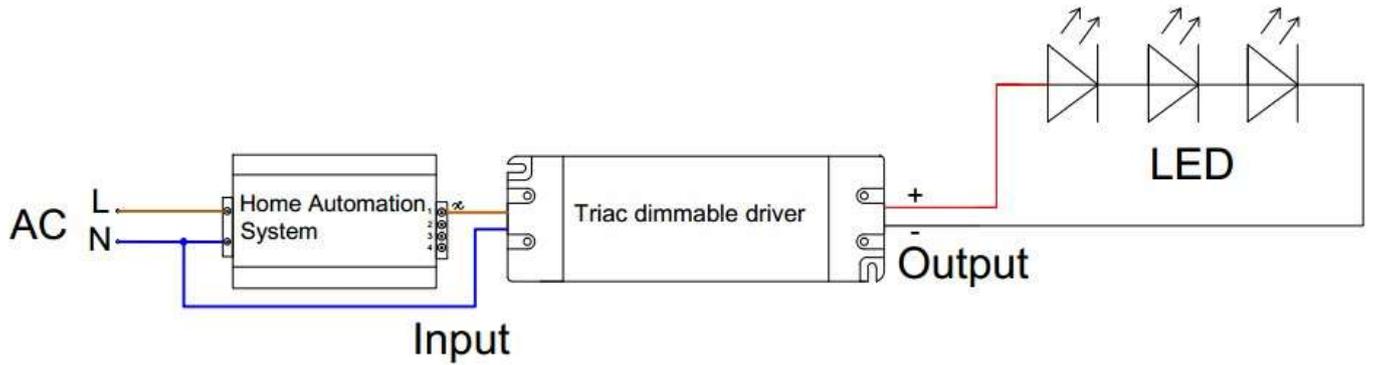
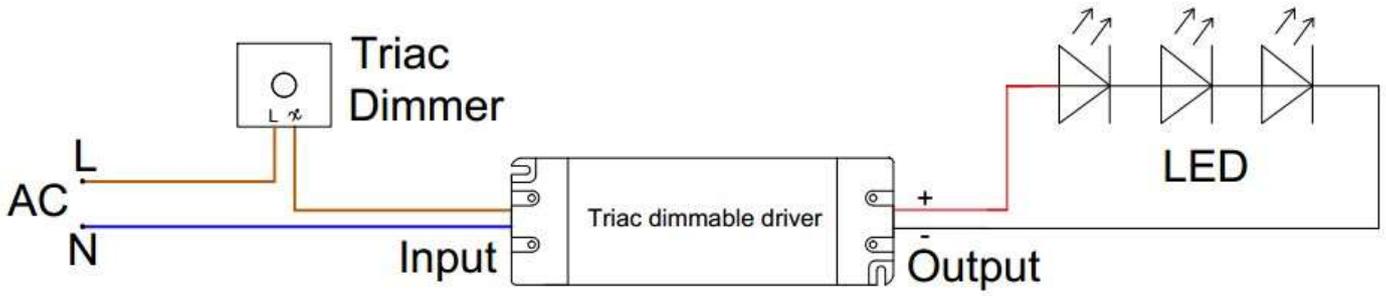
■Derating Curve



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

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■ Connecting Diagram



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