

■ Features

- Output constant voltage
- Universal AC input: 100-130VAC
- High efficiency :up to 86%
- Protection:short circuit/over loading/over current/ Over temperature
- Full protection aluminum housing
- Easy installation
- Cooling by free air convection
- Compatible with Forward phase,Magnetic low voltage,Triac Dimmer
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications and others
- Provide with a junction box for connection to line voltage
- Suitable for indoor and outdoor location use, IP66

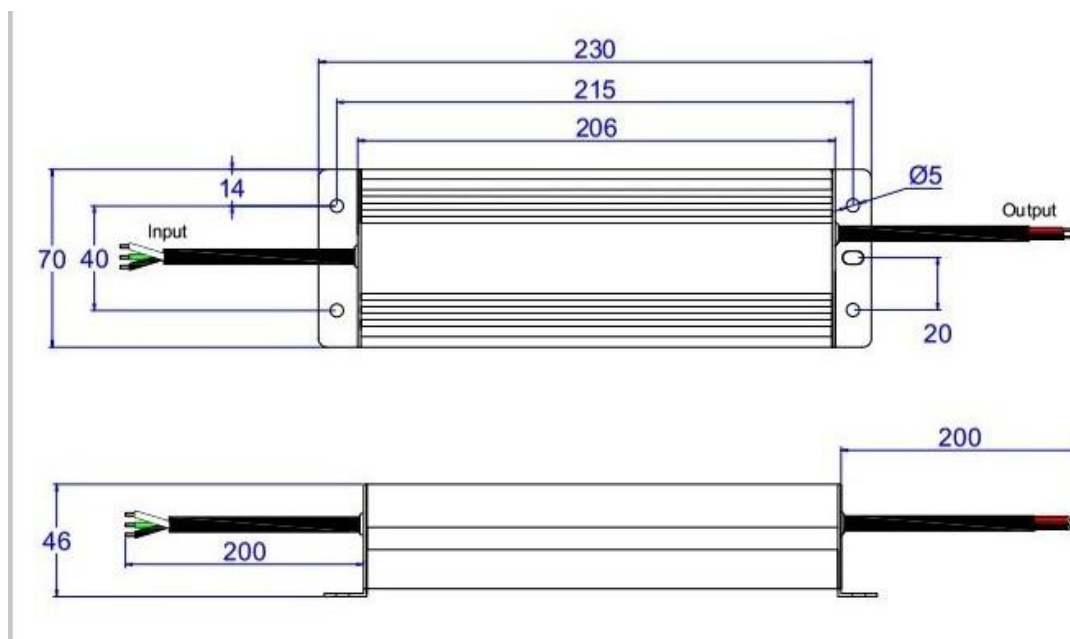


■ Specification

Model		8312-12V-JB	8312-24V-JB	8312-36V-JB	8312-48V-JB
Certificates		ETL,cETL,FCC	ETL,cETL,FCC	ETL,cETL,FCC	ETL,FCC
Output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±0.5V			
	Rated current	10A	5A	3.3A	2.5A
	Rated power	120W			
Input	Voltage Range	100~130VAC			
	Frequency Range	50~60HZ			
	Power Factor	0.65 (Full loading)			
	Efficiency (Typ.)	81%	83%	85%	86%
	AC Current (Max.)	2A	2A	2A	2A
	Leakage current	< 0.50mA/120VAC			
Protection	Short Circuit	Hiccup mode, recover automatically after fault condition is removed			
	Over Current	≤1.2*I out			
	Over Loading	≤120%			
	Over temperature	100℃±10℃, Shut down o/p voltage, recover automatically after temperature goes down.			
Environment	Working TEMP.	-40~+60℃			
	Working Humidity	20~95%RH, non-condensing			
	Storage TEMP. Humidity	-40~+80℃, 10~95%RH			
	TEMP .coefficient	±0.03%/℃ (0~50℃)			
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X,Y,Z axes			
Safety& EMC	Safety standards	UL1012			
	Withstand voltage	I/P-O/P:1500VAC			
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25℃/70%RH			
	EMC EMISSION	FCC Part 15 B			
Others	Net. Weight	1.2Kg		With junction 1.84Kg	
	Size	230*70*46mm (L*W*H)		380*77*57mm (L*W*H)	
	packing	324*279*176mm 10PCS/CTN		415*360*190mm 10PCS/CTN	

Notes	1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25℃ 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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■ Mechanical Specification for 120W Phase/Triac Dimmable driver



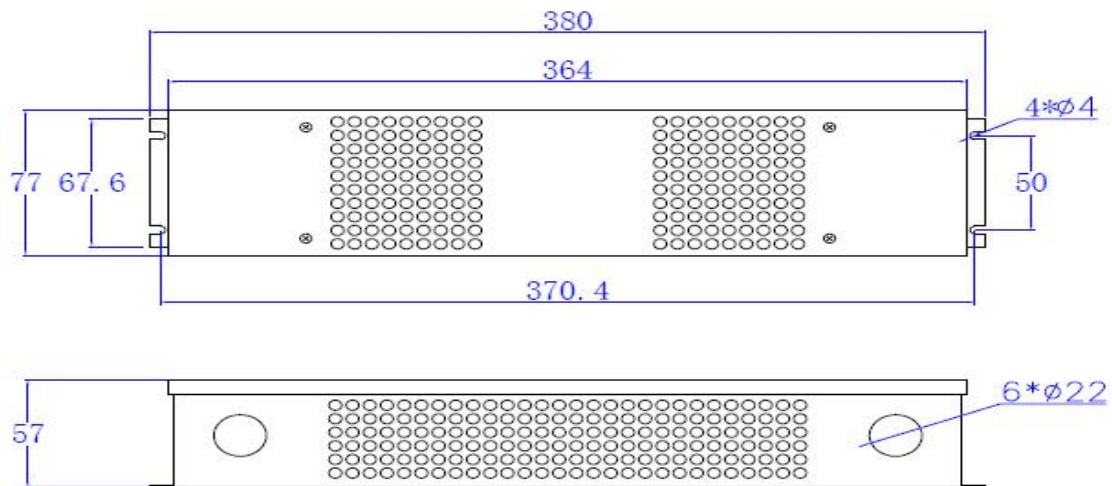
■ Label



※ Input black(L) and white(N) wires to be connected AC, Green wire to be connected ground; output red and black wires to be connected led lighting.

■ Mechanical Specification for 120W Phase/Triac Dimmable Driver with junction box





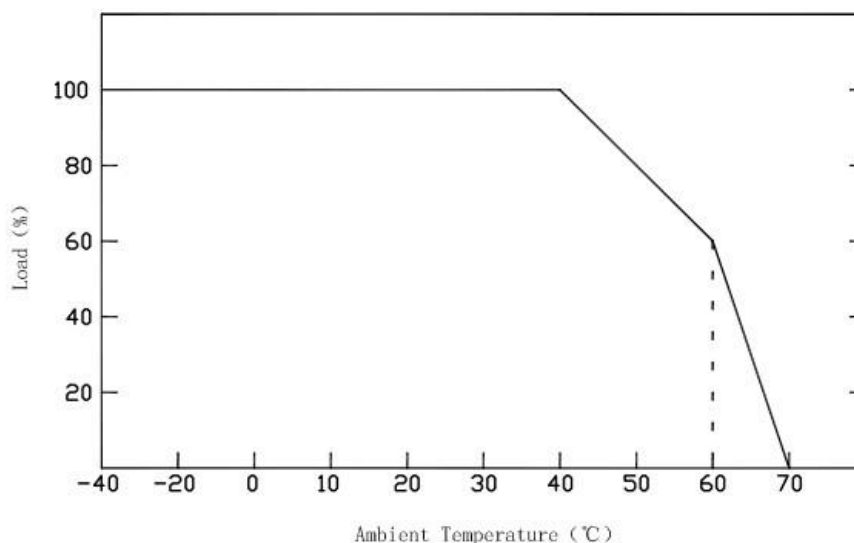
■ Dimming Operation

- ※ Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a phase/triac dimmer.
- ※ For forward phase, Magnetic low voltage and Triac Dimmer

■ Warning

- ※ Prevent to reverse polarity; Output polarity: RED "+"; BLACK "-"
- ※ 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.

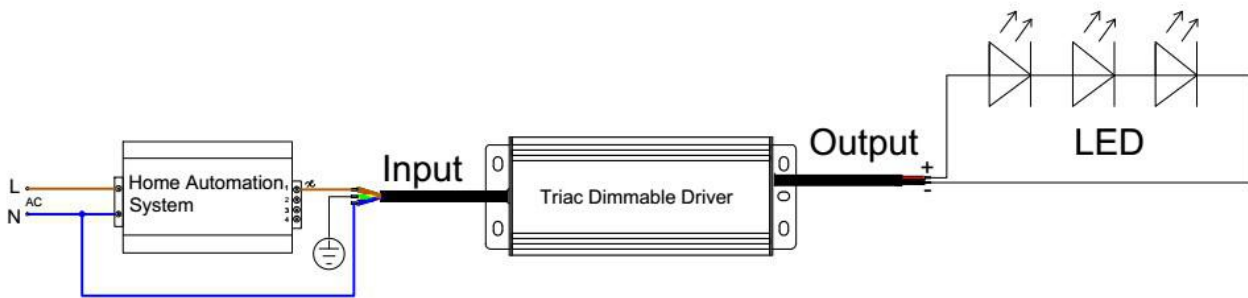
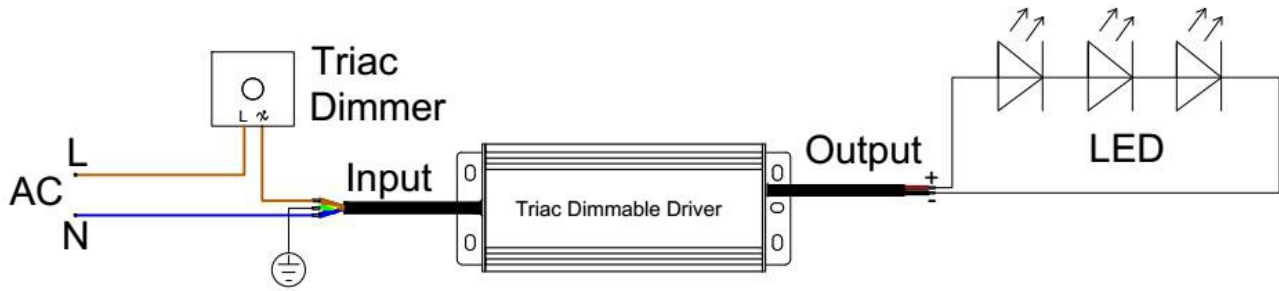
■ Derating Curve



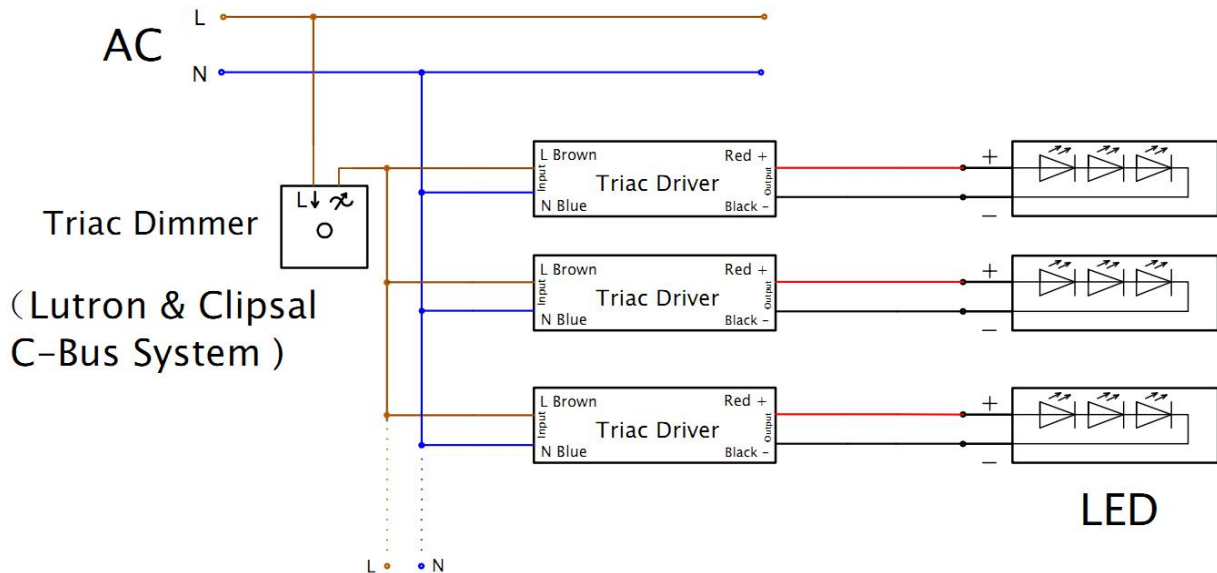
- ※ To extend their life, please refer to the Derating Curve and derate according to the temperature.

Constant Voltage Phase/Triac dimmable driver---120W series PWM output

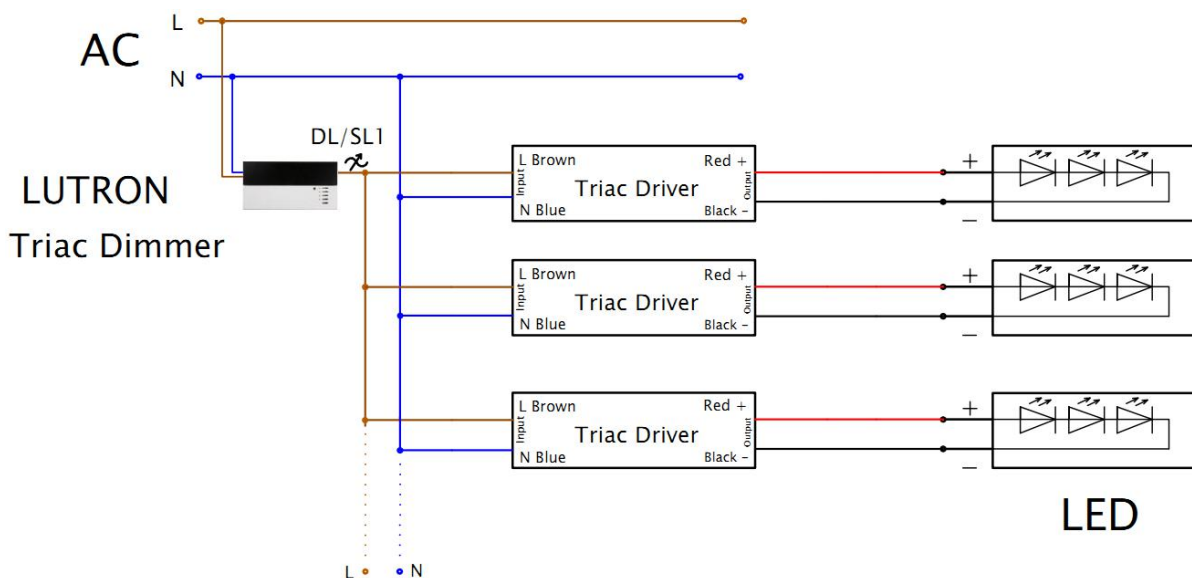
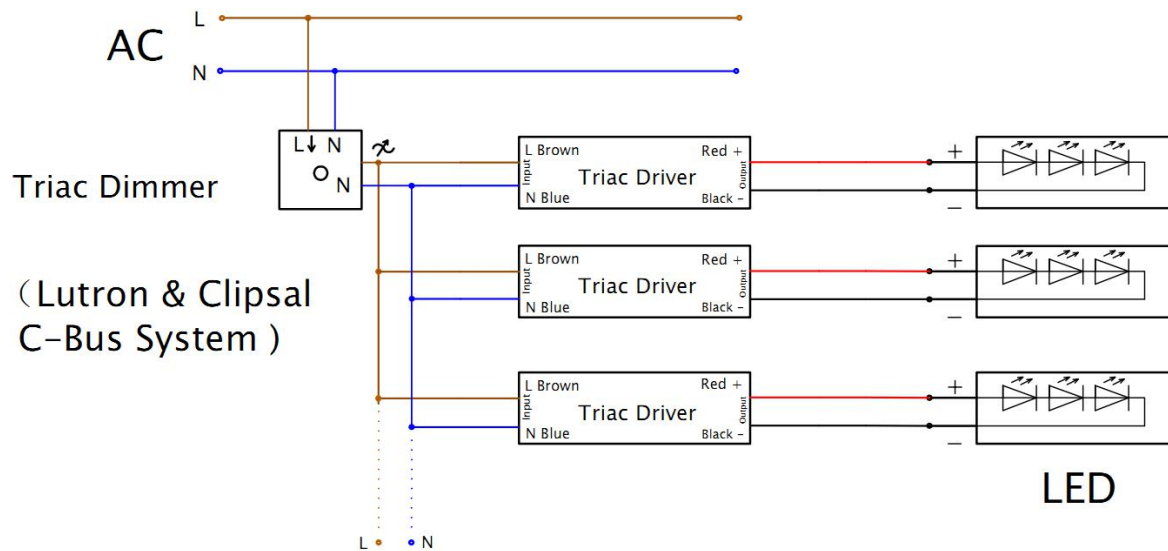
■ Single Driver Connecting Diagram



■ Multiple Drivers Connecting Diagram



Constant Voltage Phase/Triac dimmable driver---120W series PWM output



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