

Constant Voltage Phase/ Triac Dimmable Driver - 20W Series



■ Features:

- Output constant voltage
- Universal AC input: 100-130VAC
- High efficiency :u p to 80%
- Protection:short circuit/over loading/over current/ Over temperature
- Full protection plastic housing
- Easy installation
- Cooling by free air convection
- Compatible with Forward & Reverse phase, Triac, ELV Dimmers
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications and others
- Suitable for dry or damp location use, IP20



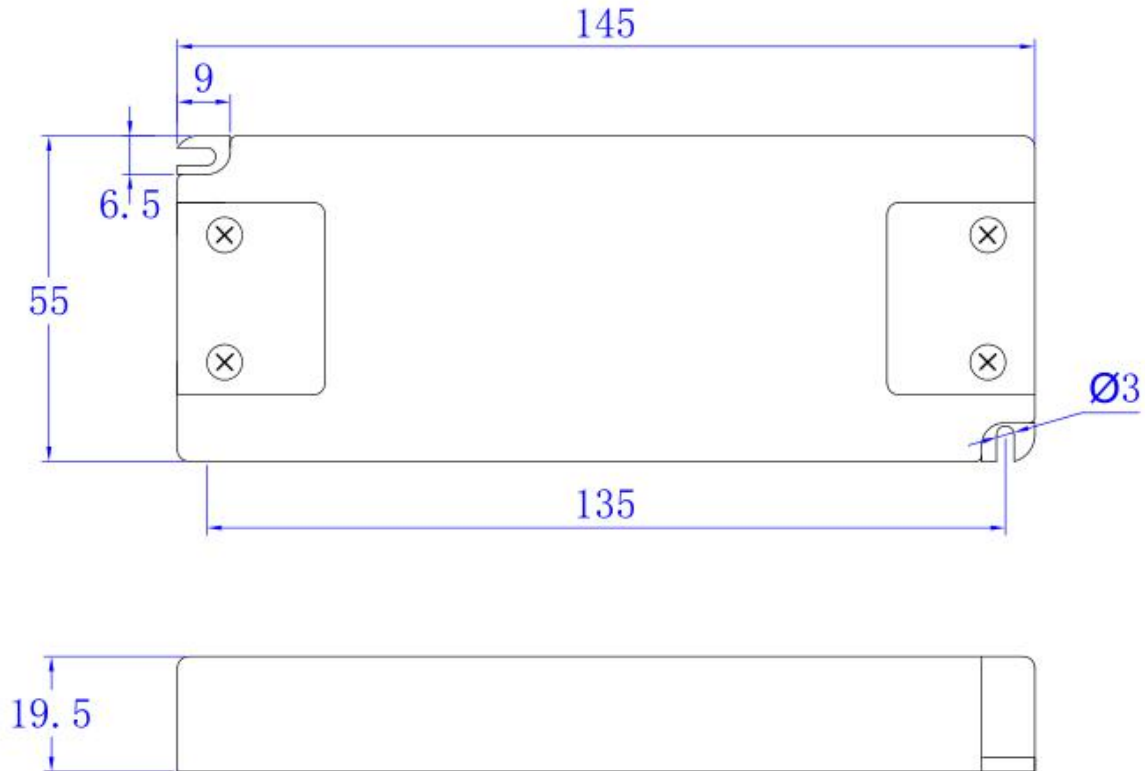
■Specification

Model		SC-20-12-US	SC-20-24-US
Certificates		ETL,cETL,FCC	ETL,cETL,FCC
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Rated current	0.83A	0.42A
	Rated power	20W	
Input	Voltage Range	100~130VAC	
	Frequency Range	47~63HZ	
	Power Factor	PF≥0.95 (Full loading)	
	Efficiency (Typ.)	78%	79%
	AC Current (Max.)	0.26A	0.24A
	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	20~90%RH, non-condensing	
	Storage TEMP. Humidity	-40~+80℃, 10~95%RH	
	TEMP .coefficient	±0.03%/℃ (0~50℃)	
	Vibration	10~500Hz, 2G 12min./1 cycle, period for 72min. each along X,Y,Z axes	
Safety& EMC	Safety standards	UL8750+UL1310 Class 2 unit	
	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	0.2Kg	
	Size	140*55*19.5mm (L*W*H)	
	packing	350*280*215mm 50PCS/CTN	

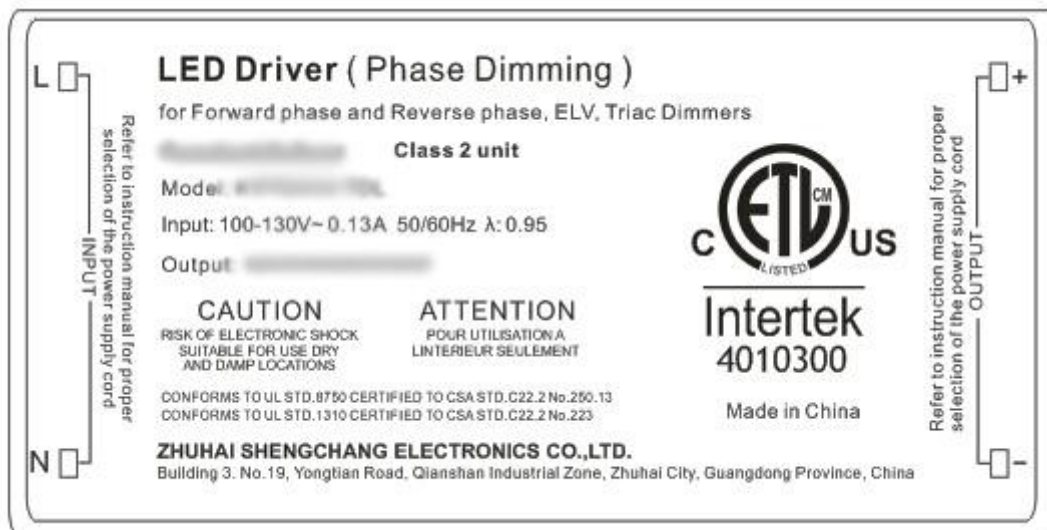
Constant Voltage Phase/ Triac Dimmable Driver - 20W Series

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 be 60-100%.
--------------	---

■ Mechanical Specification for SC series 20W Phase/Triac Dimmable driver



■ Label



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

※ Output LED : (LED+) (LED-)

Constant Voltage Phase/ Triac Dimmable Driver - 20W Series

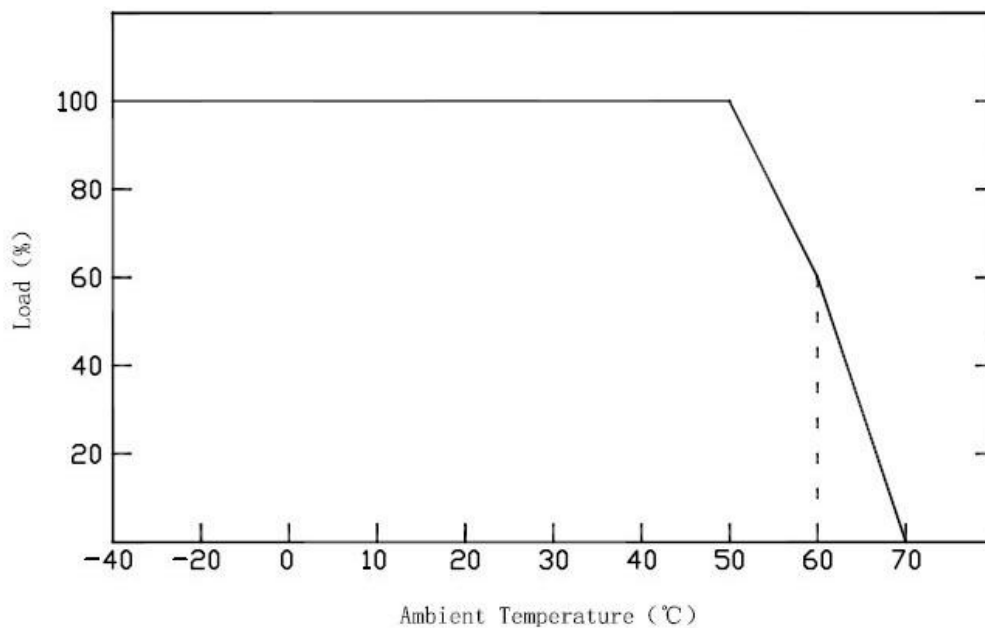
■ Dimming Operation

- ※ Output power can be adjusted through input terminal of the AC phase line(L) by connection a phase/triac dimmer.
- ※ Forward phase and Reverse phase, ELV, Triac Dimmers

■ Warning

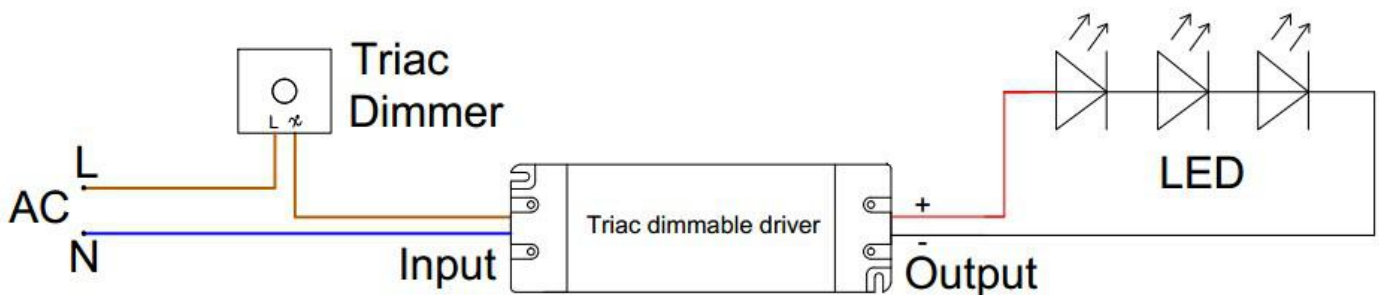
- ※ Prevent to reverse polarity;
- ※ Risk of Electric Shock. When used outdoors, install only on a circuit protected by a Class A GFCI;
- ※ Risk of Fire. Installation involves special wiring methods to run wiring through a building structure. Consult a qualified electrician;
- ※ Risk of Electric Shock. Mount the unit at a height greater than 1 foot from the ground surface.

■ Derating Curve

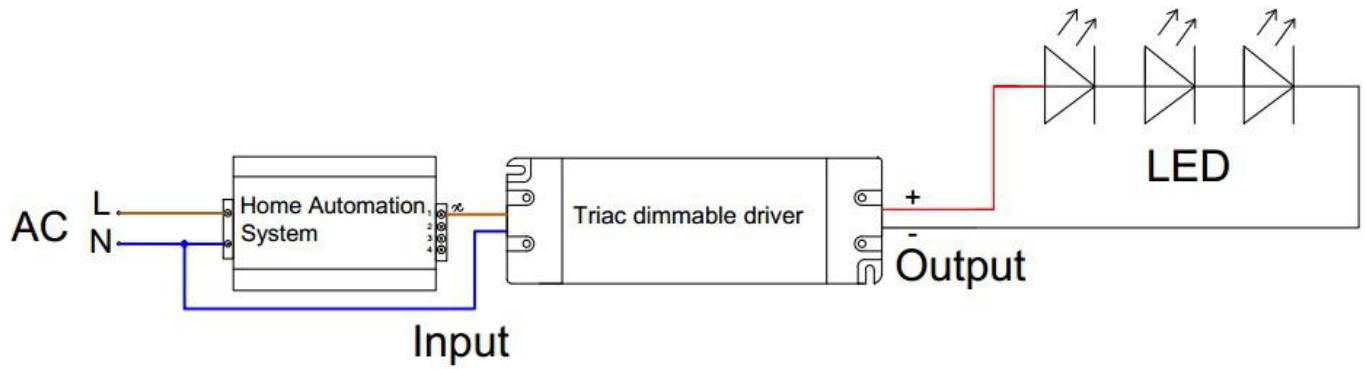


- ※ To extend their life, please refer to the Derating Curve and derate according to the temperature

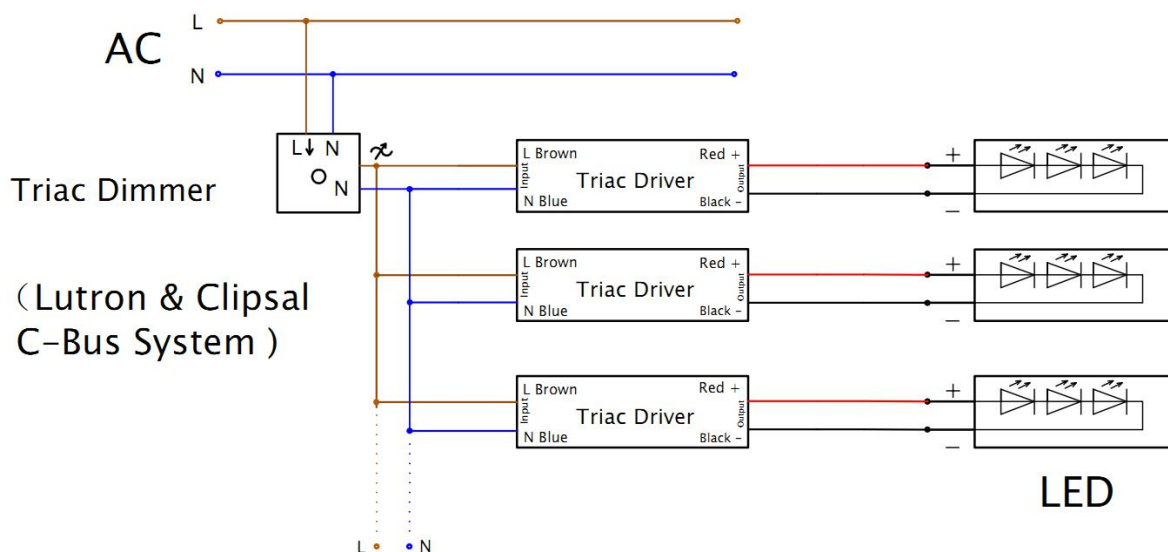
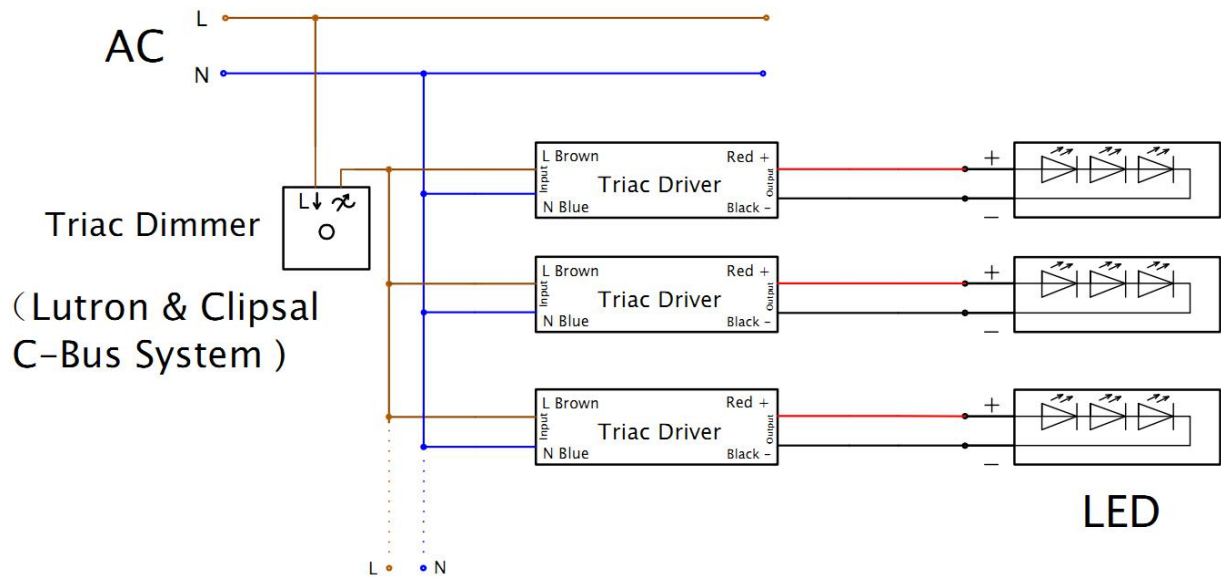
■ Single Driver Connecting Diagram



Constant Voltage Phase/ Triac Dimmable Driver - 20W Series



■ Multiple Drivers Connecting Diagram



Constant Voltage Phase/ Triac Dimmable Driver - 20W Series

