20W multi-current with dip switch Triac Dimmable CC LED driver

(Multi-output current with DIP switch adjustable) (10W, 20W, 40W, 60W available)

■ Features:

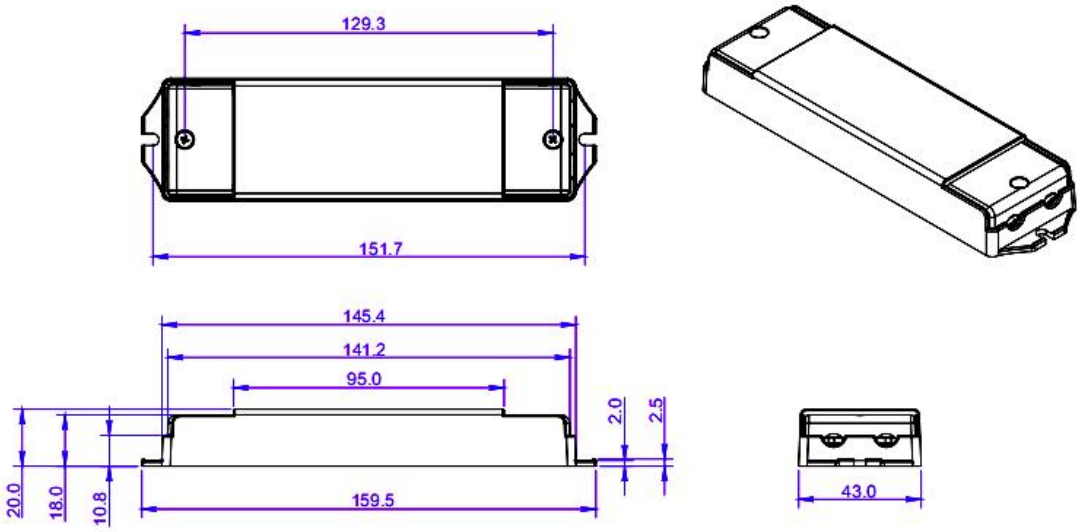
·Output constant current
·Range AC input :100-277VAC
·Efficiency up to 78%
·Built-in active PFC function
·Protections: short circuit/over current
·Full protection plastic housing easy installation
·IP20 design for installation at dry&damp location
·Cooling by free air convection
·Dimming function: Triac/phase cut dimming
Work with leading or trailing edge Triac dimmer
(ON key: leading edge; 1 key: trailing edge)
·Strong compatibility, flicker-free dimming
·Suitable for LED lighting and moving sign applications
·UL Listed Class 2, Class P
·7 years warranty

Specification:

Model		SMT-M-020CT							
Output	Rated current (mA)	700mA	600mA	550mA	500mA	450mA	400mA	350mA	250mA
	Current Tolerance	±5%							
	DC Voltage	3-29V	3-33V	3-36V	3-40V	3-42V	3-42V	3-42V	3-42V
	Rated power	20.3W	19.8W	19.8W	20W	18.9W	16.8W	14.7W	10.5W
Input	Rated Input Voltage	100-277VAC							
	Rated Frequency	47-63HZ							
	Power Factor	Full loading ≥ 0.9@110VAC, ≥ 0.93@277VAC							
	Efficiency (Typ.)	Full loading ≥ 78%@110VAC, ≥ 80%@277VAC							
	AC Current (Max.)	0.15A							
	Inrush Current (Typ.)	2.96A, 7.6us @ 50%Ipeak at 100-277VAC							
	Leakage current	<0.50mA							
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed							
	Output No-Load Voltage	52V max.							
	Over temperature	Ambient temp. over 50±5℃, output current will be reduced to 50%; Ambient temp. over 60±5℃, output will be off; recovers automatically after temp. drops.							
	Protection Class:	II							
Environ-ment	Working TEMP.	-30-+60℃							
	Working Humidity	20-90%RH, non-condensing							
	Storage TEMP. Humidity	-30-+80℃,10-95%RH							
	TEMP. coefficient	±0.03%/℃ (0-50℃)							
	Vibration	10-500Hz, 2G 10min./1 cycle,period for 60min.each along X,Y,Z axes							

Safety	Safety standards	EN61347-1　EN61347-2-13　UL8750
	Withstand voltage	I/P-O/P:3.75KVAC
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25℃/70%RH
Others	Weight	0.115Kg
	Size	159.5*43*20mm(L*W*H)
	packing	340*250*135mm (50PCS/CTN) for outer carton　6.52KG/CTN
Notes	1. All parameters NOT specially mentioned are measured at 110V,277VAC input, rated load and 25℃of ambient temperature. 2. Tolerance: includes set us tolerance, line regulation and load regulation.	

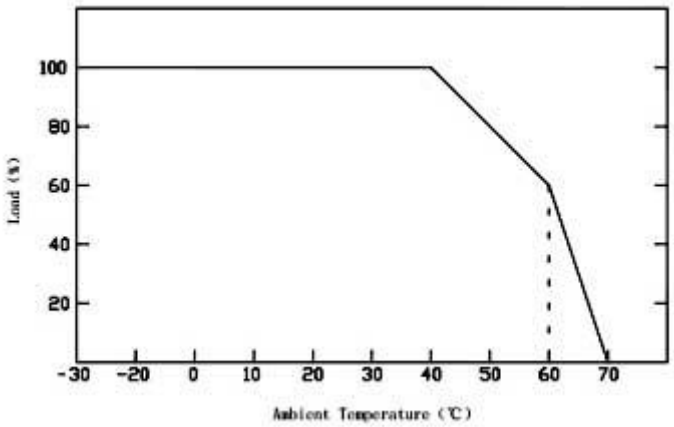
■ Mechanical Specification:



- Input with DG126 terminals 3P: Live Wire AC (L), Neutral Wire AC(N)
- Output LED SEC with DG126 terminals 2P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
- Suggested wire diameter: Input 0.75-2mm^2; Output:0.5-2mm^2.

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

■ Derating Curve



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

■Dimming Operation

- Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a Triac dimmer.
- Usually matching with leading edge and trailing edge dimmer both.

At the input area, you will find dip switch on the terminal.

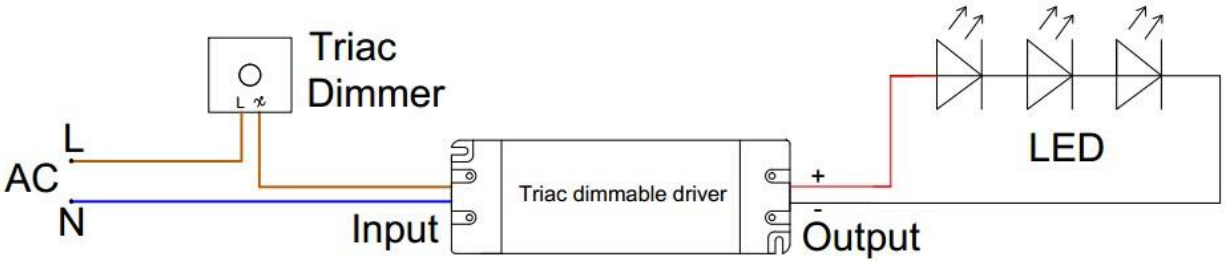
ON key for leading edge; 1 key for trailing edge. (see right picture)

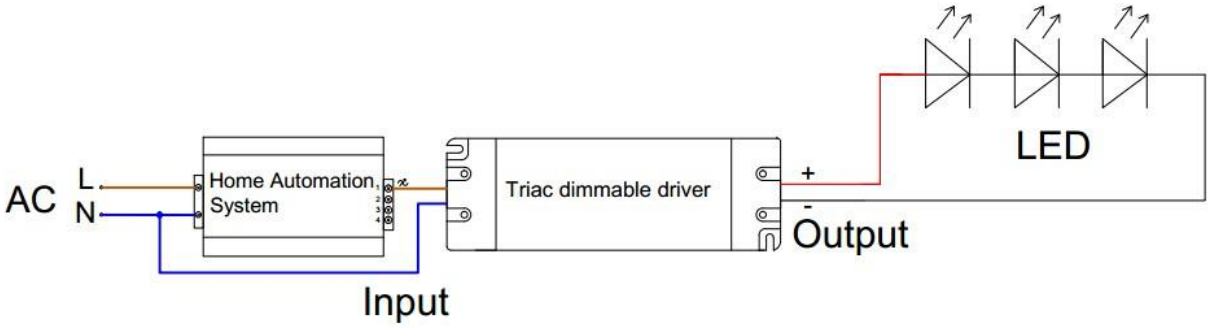
- please try to use the small power dimmer, have access to a wider dimming range,

high-power dimmer is difficult to achieve the output current to zero

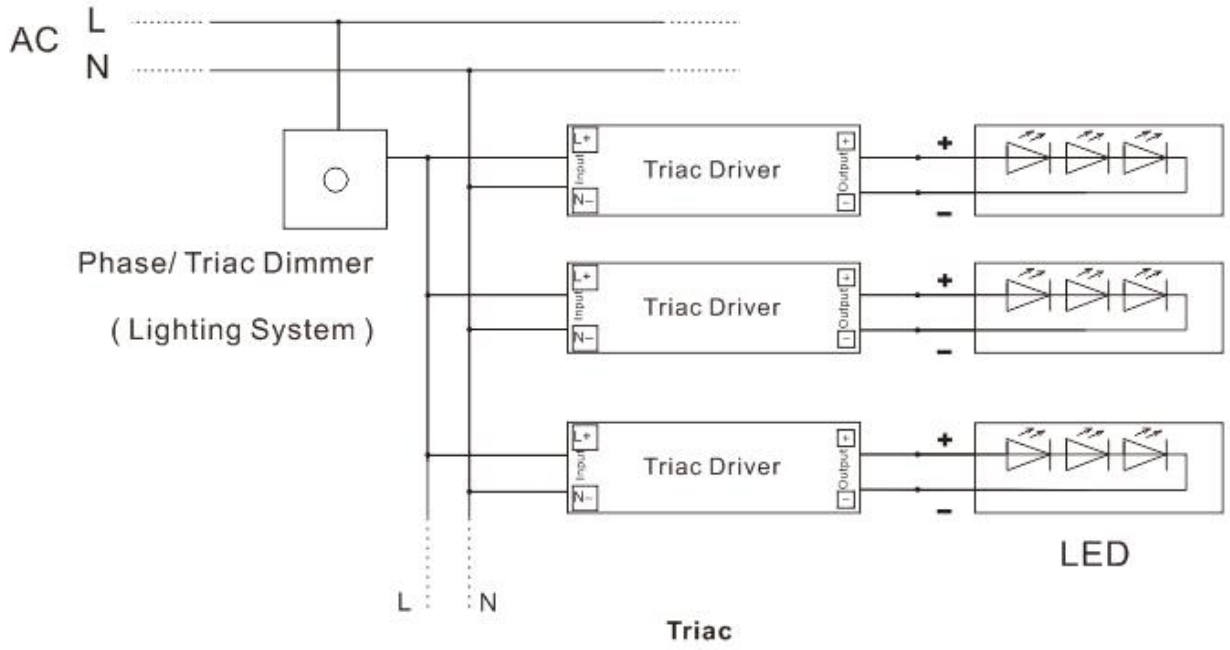
- please try to use dimmers with power at least 2 times as the output power of the driver.

■ Connecting Diagram in Single (I)





■ Connecting Diagram Multiple (II)



■ Instruction:

- This driver should be installed by qualified and professional person;
- Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- Ensure that wiring is correct before test in order to avoid light and power supply damage;