

20W multi-current with dip switch DALI&PUSH Dimmable CC LED driver

Features:

- ·UL Listed Class 2 Class P
- ·Output constant current for single color DT6
- ·Range AC input :100-277VAC
- ·Efficiency up to 79%
- ·Built-in active PFC function
- ·Protections: short circuit/over current/over temperature
- ·Full protection plastic housing easy installation
- ·IP20 design for dry and damp installation
- ·Cooling by free air convection

Dimming function:

DALI Dimming

PUSH dimming function

- ·Strong compatibility, flicker-free dimming
- ·Suitable for LED lighting and moving sign applications
- ·7 years warranty









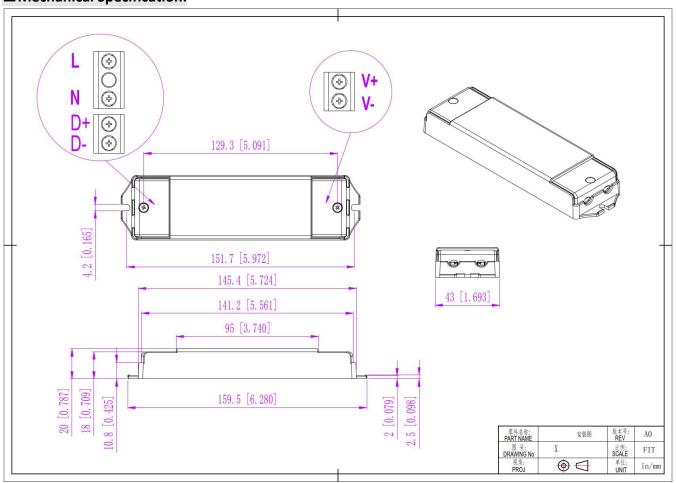
Specification:

Model		SMT-M-020CM							
	Rated current	700mA	600mA	550mA	500mA	450mA	400mA	350mA	250mA
	(mA)	TTT	ATT	TAT	TTL	TTT	TTT	TLL	111
	Current Tolerance	±5%							
Output	No load Voltag	52VMax							
	DC Voltage (V)	3-29V	3-33V	3-36V	3-40V	3-42V	3-42V	3-42V	3-42V
	Rated power (W)	20.3W	19.8W	19.8W	20W	18.9W	16.8W	14.7W	10.5W
	Rated Input Voltage	100-277V <u>AC</u>							
	Rated Frequency	47-63HZ							
	Power Factor	0.95@120VAC 60Hz							
	Efficiency (Typ.)	Full loading 83%@120VAC 60Hz; 83.3% @230VAC 50Hz; 82.2%@277VAC 60Hz							
Input	THD(Typ.)	≤20% @ full load							
	Standby power (W)	0.30W@120VAC 60Hz							
	AC Current (Max.)	0.27A							
	Inrush Current (Typ.)	2.48A,31us@50%lpeak 120VAC 9.4A,21.6us@50%lpeak 230VAC 8.4A,26us@50%lpeak 277VAC							
	Leakage current	<0.50mA							
	Short Circuit	Constant current mode, recovers automatically after fault condition is removed							
Protec-	No-Load Voltage	52V max. for output voltage							
	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							



	Working TEMP.	-40-+60℃			
Enviro	Working Humidity	20-90%RH, non-condensing			
-	Storage TEMP.	-40-+80℃			
ment	Storage Humidity	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 standards	EN61347-1 EN61347-2-13(EU) & UL8750(US)			
Safety	Withstand voltage	I/P-O/P:3.75KVAC			
&	Isolation resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH			
EMC	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3(EU) & FCC Part 15, Subpart B; ANSI C63.4-2014 (US)			
	Weight	0.15Kg			
Others	Size	159.5*43*20mm(L*W*H)			
	packing	320*280*215mm (50PCS/CTN) for outer carton			
Notes	1. All parameters NOT specially mentioned are measured at 120VAC/ 230VAC input, rated load and 25℃ of ambient temperature				
Notes	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.
- **DALI or PUSH Dim. terminals with DG126 terminals 2P:

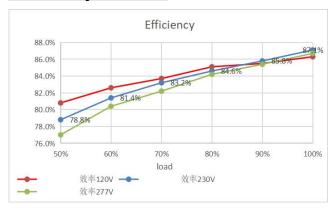
when DALI dimming, signal dimming DA1, DA2 (No polar) connected to the BUS of the DALI Master;



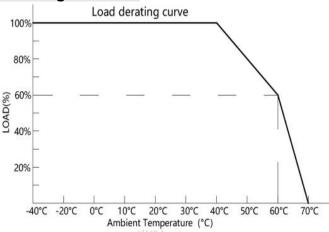
when PUSH dimming, (N) is connected to AC (N) while white (L) is connected to Push dim switch dimmer(L); **Suggested wire diameter: Input 0.75-2mm²; Output:0.5-2mm².

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

■ Efficency Curve



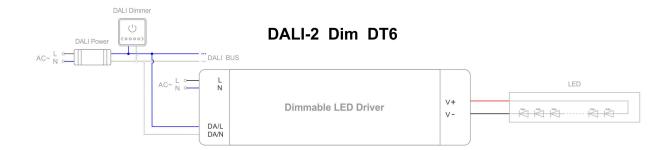
■ Derating Curve



- > To extend their life, please refer to the Derating Curve and derate according to the temperature.
- Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid overloading.

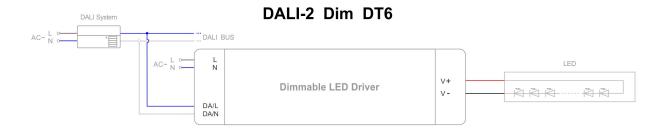
■ Dimming Operation and Connecting Diagram

Using DALI-2 dimming with DALI power and dimmer

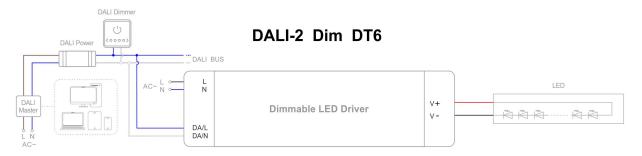




Using DALI-2 dimming with DALI system and DALI bus



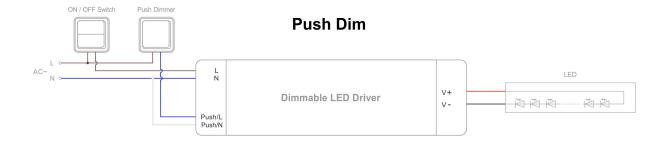
Using DALI-2 dimming with intelligent device, DALI master and dimmer



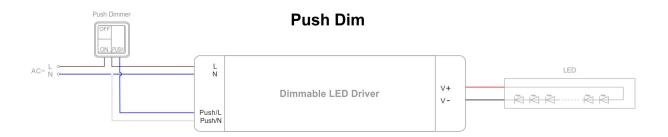
Note: For DALI Dimming Wiring Diagram 3, please noted that only one DALI power is need in the DALI bus, so no extra DALI power is needed if the Master or Dimmer already includes the DALI Power.

Using PUSH dimming with dimmer (on & off function)

Action	Action duration	Function
Short Push	0.1~1s	Turn ON-OFF the driver
Long Push	1.5~10s	Every Long Push changes the dimming direction, dimming up or down

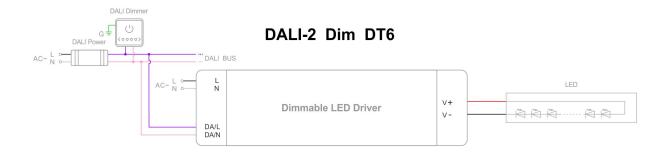




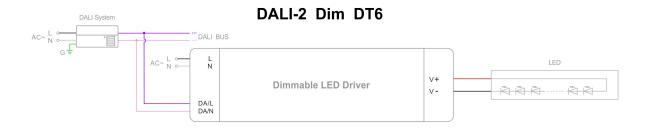


Dimming Operation and Connecting Diagram (For North American Market)

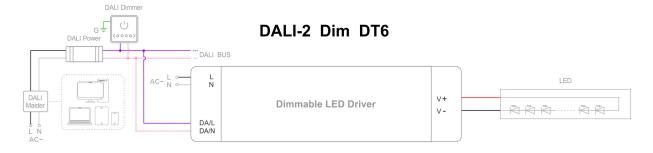
Using DALI-2 dimming with DALI power and dimmer



Using DALI-2 dimming with DALI system and DALI bus



• Using DALI-2 dimming with intelligent device, DALI master and dimmer

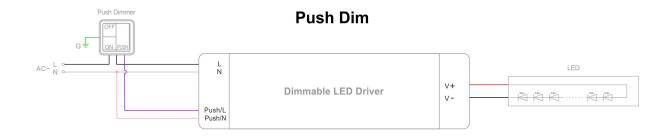


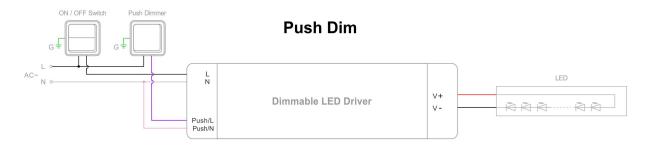
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■ Instruction:

- 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;