

## DALI2 & PUSH 2 in 1 dimmable LED KI-2C-DP2 series 20W With DIP Adjustment Multi-current

# KI-2C-DP2 Series 20W

**Whole Family: KI-XXX-2C-DP2 - [ 20W 40W 60W ]**



## Features

Output:	Constant Current (DIP Adjustment )
Range:	100-277VAC
PFC design:	Built-in active PFC function
Efficiency:	up to 84.7%
Protections:	Open circuit /short circuit/ over temperature/ over load
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP20
Dimming function:	DALI&PUSH 2 in 1 dimming ( CCT ) digital dimming, accurately dimming, stable and smooth
Dimming range:	0-100%, LED lights dimming from 1%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

## DALI2 & PUSH 2 in 1 dimmable LED KI-2C-DP2 series 20W

### With DIP Adjustment Multi-current

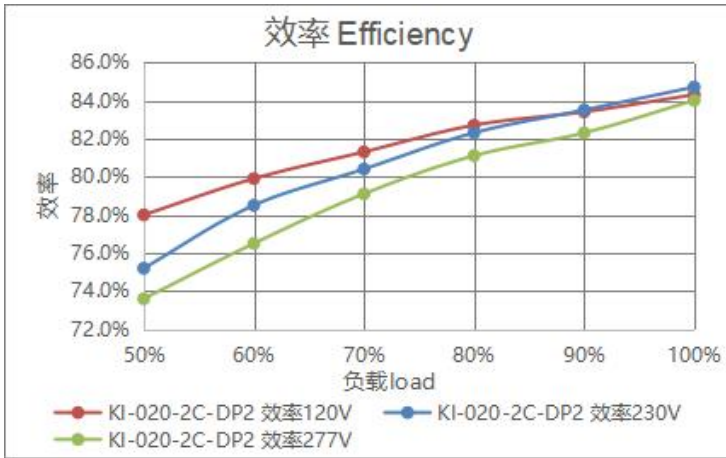
### Specification

**T** ON **L** OFF

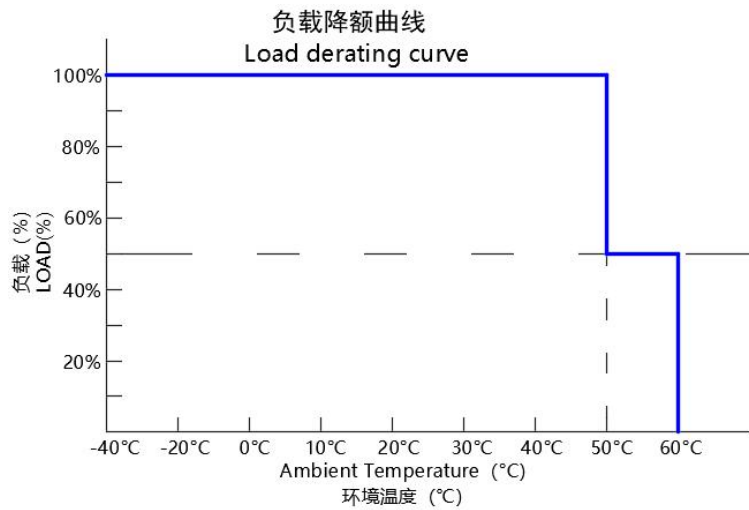
Model		KI-020-2C-DP2							
Output	Rated current (A)	250mA ⬇⬇⬇	350mA ⬇⬇⬇	400mA ⬇⬇⬇	450mA ⬇⬇⬇	500mA ⬇⬇⬇	550mA ⬇⬇⬇	600mA ⬇⬇⬇	700mA ⬇⬇⬇
	Current Tolerance	±5%							
	DC Voltage (V)	6-42V	6-42V	6-42V	6-42V	6-40V	6-36V	6-33V	6-29V
	No-load Voltage	55V (max)							
	Rated power	10.5W	14.7W	16.8W	18.9W	20W	19.8	19.8W	20.3W
Input	Rated Voltage	100-277VAC							
	Rated Frequency	47-63HZ							
	Power Factor	0.97(@120VAC 60Hz)		0.93(@230VAC 50HZ)		0.87(@277VAC 60Hz)			
	THD	14.0% ( @120VAC 60Hz )		16.7% ( @230VAC 50HZ )		17.7% ( @277VAC 60HZ )			
	Efficiency (Typ.)	84.3% ( @120VAC 60Hz )		84.7% ( @230VAC 50HZ )		84.0% ( @277VAC 60HZ )			
	Standby power (W)	0.49W ( @120VAC 60Hz )		0.47W ( @230VAC 50HZ )		0.48W ( @277VAC 60HZ )			
	AC Current (Max.)	0.27A							
	Inrush Current	3.68A/29uS@50%Ipeak@120V 13.4A/17.4uS@50%Ipeak@230V 8.3A/30.4uS@50%Ipeak@277V							
	Leakage current	<0.50mA							
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed							
	Over temperature	Ambient temp. over 50℃ ±5℃ , output current will be reduced to 50%; Ambient temp. over 60℃ ±5℃ , output current will be reduced to 0%; ambient temp. reduce to 45℃ ±5℃ , recovers automatically.							
Environ-ment	Working TEMP.	-40-+55℃							
	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 10min./1 cycle,period for 60min.each along X,Y,Z axes							
Safety & EMC	Safety standards	EN61347-1; EN61347-2-13							
	Withstand voltage	I/P-O/P:3.75KVAC							
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25℃/70%RH							
	EMC Emission	EN55015,EN61000-3-2,3							
	EMC Immunity	EN61000-4-2,3,4,5,6,11 EN61547							
Others	Weight	0.12Kg							
	Size	159.5x43x20mm(L*W*H)							
	packing	340*250*135mm ( 30PCS/CTN )							
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃of ambient temperature. 2. Tolerance: includes set us tolerance, line regulation and load regulation.								

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**Efficiency Curve** (efficiency vs output load)



**Derating Curve** (output load vs TEMP.)

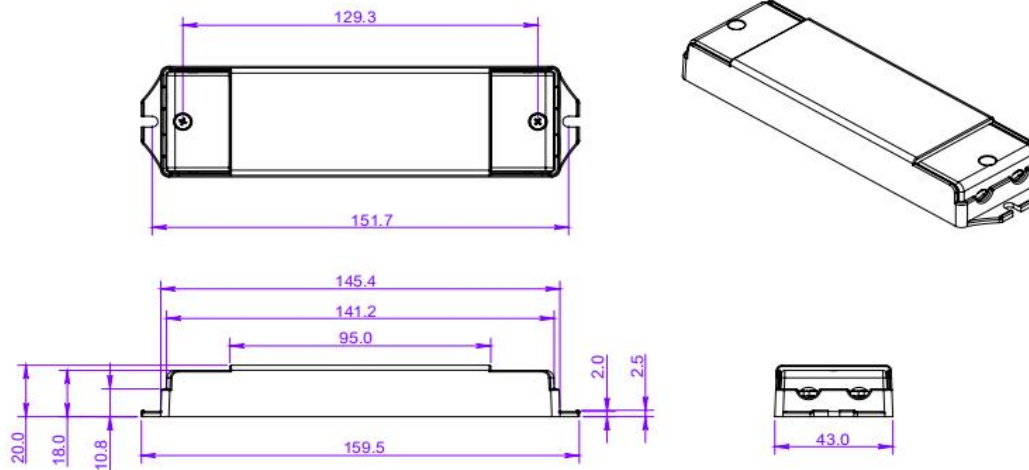


❖ To extend their life, please refer to the Derating Curve and derate according to the temperature.

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## Mechanical Specification

SP2



1. Input with DG126 terminals 3P: Live Wire AC (L), Neutral Wire AC(N)
2. Output LED SEC with DG126 terminals 2P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
3. DALI or PUSH Dim. terminals with DG126 terminals 2P:
4. 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 (L) is connected to Push dim switch dimmer( L ) ;

### Warm tips:

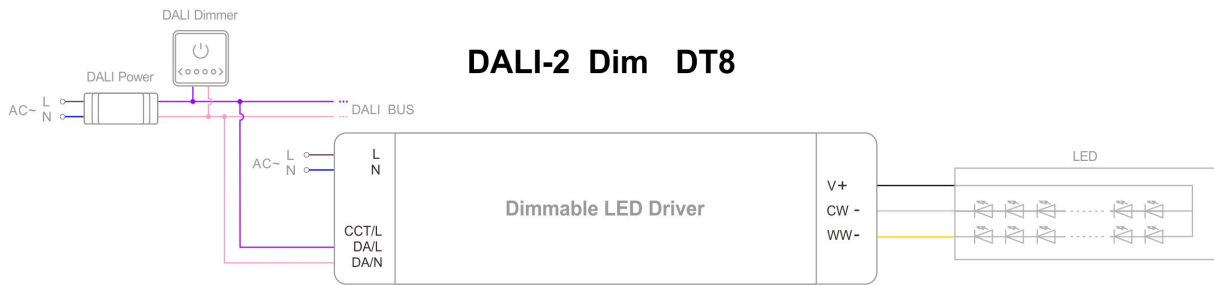
1. Suggested wire diameter: Input 0.75-2mm<sup>2</sup>; Output:0.5-2mm<sup>2</sup>.
2. Any other requests for cable, we can customized.

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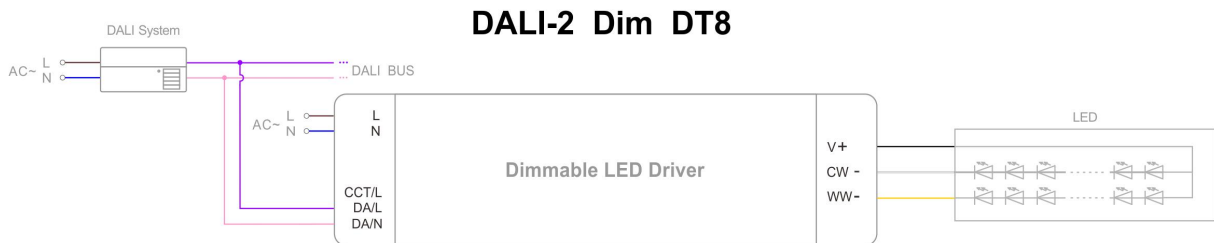
## Dimming Operation and Connecting Diagram

### DALI&PUSH dimming

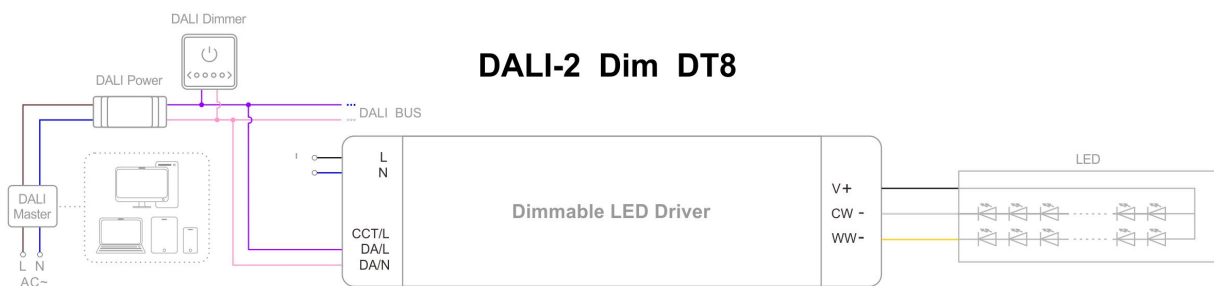
- Using DALI-2 dimming with DALI power and dimmer



- Using DALI-2 dimming with DALI system and DALI bus



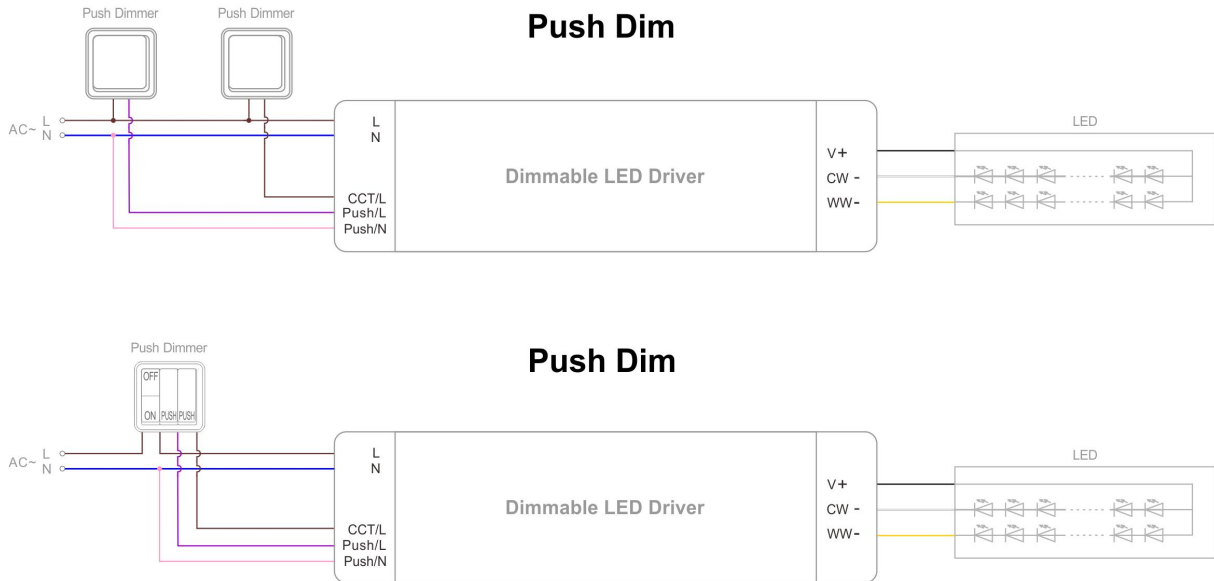
- Using DALI-2 dimming with intelligent device, DALI master and dimmer



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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)



### Instruction

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.
4. If driver Cannot work normally, don't maintain privately.
5. Check whether the rated input voltage of the power supply is within the municipal voltage range before use
6. The power supply cannot be stacked and installed (placed), the installation distance between power supply and power supply is > 10cm, multiple power supply are in a narrow space, and ensure the ambient temperature is <55°C; such as distribution box, etc
7. Do not use it under abnormal load: Overload work will lead to power supply damage, and extremely light load will cause the power supply can not to work normally
8. To ensure the safety of use and reduce interference, please ensure that the ground wire is reliably grounded

Have any questions, please contact Zhuhai Shengchang.

Please visit our website or contact us for more information! [www.scpower.net.cn/en](http://www.scpower.net.cn/en)