

5601180 SICOM ED-S 100 IP67 24V - DALI

Summary

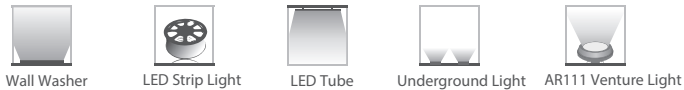
5601180 is a dimming driver that can provide constant voltage output. Complies with DALI standard protocol IEC 62386. LED driver featuring the dimming by DALI master/Touch DIM(PushDIM) switch, with smooth dimming curve and are flicker free.

Product Feature

- Single-channel with 24V constant voltage output
- Wide voltage input range from 100VAC to 240VAC
- With built-in active PFC function
- Comply with DALI protocol IEC 62386-207
- Support Touch DIM(Push DIM) function
- Ultra-thin design, Waterproof level IP67, High efficiency up to 90%
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over voltage, lightning protection
- suitable for LED CV lighting, such as LED module, LED strip light, LED tube,and so on



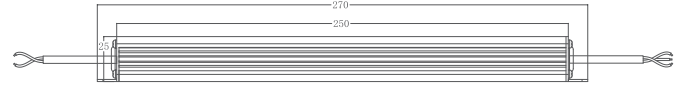
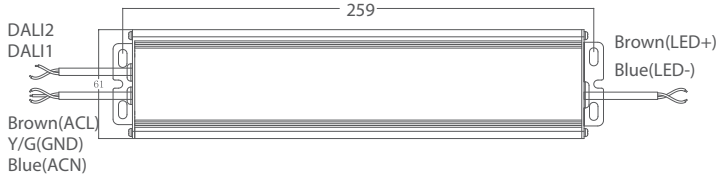
Application



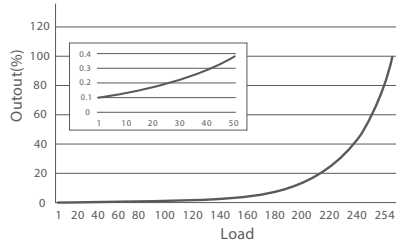
Modello	5601180 SICOM ED-S 100 IP67 24V - DALI	
Input	Efficiency	90%@240VAC, full load
	Voltage	100VAC-240VAC
	Frequency	50~60Hz
	Power Factor	>0.95@230VAC, Full load
	THD	<10%230VAC, Full load
	Standby power	<0.5W
	Current	1.35Amax@100VAC
	Inrush Current	Cold start 50A(measured50% lpeak twidth=60us) @230VAC
Output	Direct voltage	24VDC
	Rated current	4.17A
	Rated Power	100W
	Output Pst LM(at full load)	≤1
	SVM	≤0.4
	Channel	1
	Voltage Tolerance	±2%
	Over voltage protection	25-36VDC
Protection	Ripple and noise(max)	<120mVp-p
	Short Circuit	Close output, recovers automatically after fault removed
	Over Voltage	Colse output recovers automatically of fault after restart
Safety & EMC	Over Load	Hic cup recovers after fault condition is removed
	Surge	L-N:2kV,L,N-FG:4kV
	Withstand Voltage	I/P-O/P:3000VAC/5mA I/P-FG:1500VAC/5mA O/P-FG:500VAC/5mA
	Safety standard	IEC/EN61347-1,IEC/EN61347-2-13,GB19510.1,GB19510.14
	EMC Eission	EN50515,EN61000-3-2 Class C,IEC61000-3-3
Funcio	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547,GB17625.1
	Dimming mode	DALI/Touch DIM(Push DIM)
	Dimming range	0.1%-100%
	DALI standard	IEC62386-101, IEC62386-102, IEC62386-207
Others	Working Temp.	-25 ~ +60C°
	Storage Temp.; Humidity	-40 ~85C° , 20-90%RH
	Tc	90C°
	Material	Metal
	IP Rating	IP67
	Lifetime	50,000 h
	Warranty	5 years
	Switch Cycle	>100,000 times
	Packaging	Net weight: 820g±5%/PCS; 20PCS/Cartron; 17kg±5%/Cartron; Carton Size: 325*315*195mm (L*W*H)
	Dimension	270*61*25mm(L*W*H)

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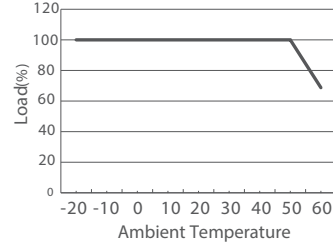
Dimension(mm)



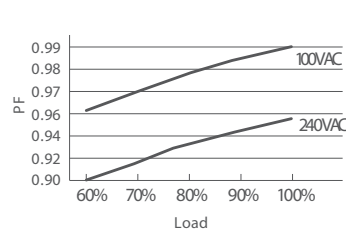
Dimming Curve



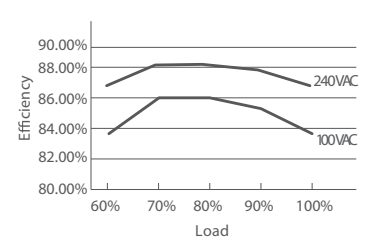
Derating Curve



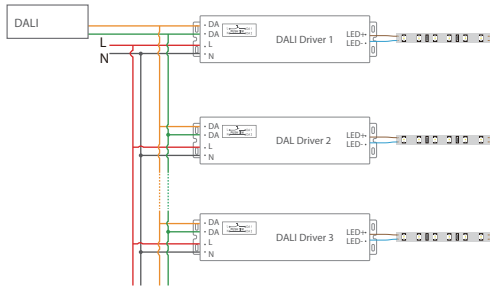
PF vs Load



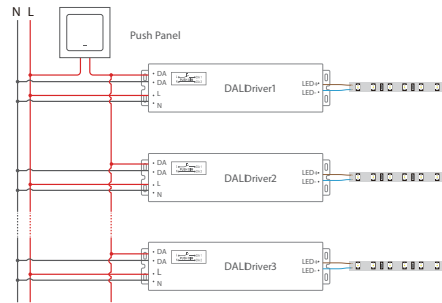
Efficiency vs Load



DALI Diagram



Touch DIM(Push DIM) Diagram



Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

Touch Dim(Push DIM) Function

1. Press the Touch DIM switch for 8s or more,the driver can be controlled via Touch DIM switch.
2. Short press the Touch DIM switch (<0.5s) to control the lamp on or off.
3. Long press the Touch DIM switch (>0.5s) to dim the brightness of light. The dimming direction will change every 5 seconds after each pressing.
4. Double-click the Touch DIM switch (<0.3s), then all lamps connected on the device will be set maximum brightness.
5. The brightness adjustment range is 1%-100%, and the light can be turned off through short pressing when doing the adjustment pressing Touch DIM switch.
6. With the Power off memory function, the power-down state will be recovered when power on again.

Max. quantity of drivers per miniature circuit breaker

MCB type	B16	C16
Installation	1.5mm ²	1.5mm ²
Quantity	4	7

※ The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail.Please contact us if you have any questions.

Max. distance between independent use LED driver and LED modules

Distance	2.5m/8ft	5m/16ft	10m/32ft	15m/49ft
Cable section	0.75mm ² /AWG18	1mm ² /AWG17	1.5mm ² /AWG15	2.5mm ² /AWG13

Cautions

- 1 This product should cut off the input voltage and installed by a professional.
- 2 Before installation, cut off the power supply and confirm that the voltage and current output by the power supply must meet the specifications of the lamp before installation.
- 3 It is waterproof IP67,do not soak in water for a long time when using.
- 4 The driver should be installed in a well space and environment.
- 5 The sectional area of the conductor wire which connect to the driver and lamp should be enough (Recommended less than 4A/mm²).
- 6 Make sure all connections are correct and secure before powering up.
- 7 If break down during use,it must be repaired by a professional or contact the supplier.