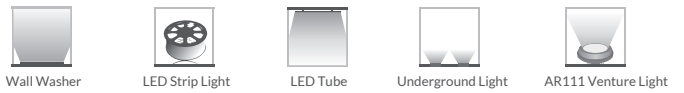## Orion-Dali-150W24V-IP

Summary

Orion-Dali-150W24V-IP 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 Features

·Single channel output with 24V CV direct current
·Wide voltage input range from 100VAC to 240VAC
·With built-in active PFC function
·Meet DALI protocol IEC 62386-207
·Support Touch DIM(Push DIM) function
·Ultra-thin design, Waterproof level IP67, High effciency up to 89%
·Dimming effect smooth, no flicker
·Protections: Short circuit, over load, over voltage, lightning protection
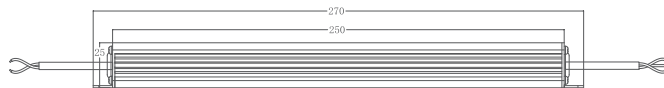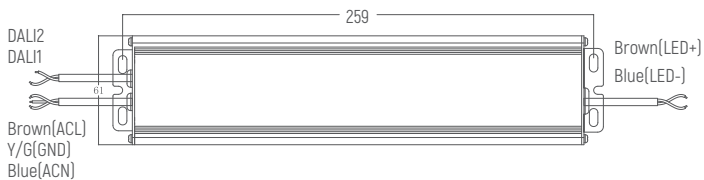·suitable for LED CV lighting, such as LED module, LED strip light, LED tube, and so on

CCC CE DALI RoHS SELV

Application

| Wall Washer | LED Strip Light | LED Tube | Underground Light | AR111 Venture Light |

Technical Parameters

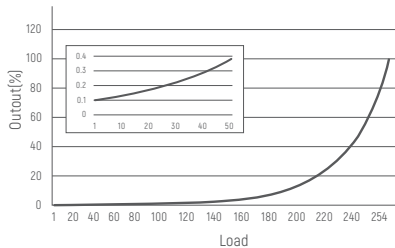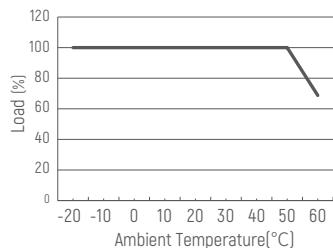| Model		Orion-Dali-150W24V-IP
Input	Efficiency	89%@230VAC, Full load
	Voltage	100VAC-240VAC
	Frequency	50~60Hz
	Power Factor	>0.95@230VAC, Full load
	THD	<10%230VAC, Full load
	Standby power	<0.5W
	Current	2Amax@100VAC
	Inrush Current	Cold start 50A(measured50% Ipeak twidth=60us) @230VAC
Output	Direct voltage	24VDC
	Rated current	6.25A
	Rated Power	150W
	Voltage Tolerance	±2%
	Over voltage protection	25-36VDC
	Ripple and noise(max)	<120mVp-p
	Channel	1
Protection	Short Circuit	Close output, recovers automatically after fault removed
	Over Voltage	Close output recovers automatically of fault after restart
	Over Load	Hic cup recovers after fault condition is removed
Safety&EMC	Surge	L-N: 2kV,L,N-PG:4kV
	Withstand Voltage	I/P-O/P:3000VAC/5mA I/P-PG:1500VAC/5mA O/P-PG:500VAC/5mA
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13, GB19510.1, GB19510.14
	EMC Eission	EN50515, EN61000-3-2 Class C, IEC61000-3-3, GB/T17743
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547,GB17625.1
Function	Dimming mode	DALI/Touch DIM(Push DIM)
	Dimming range	0.1%-100%
	DALI standard	IEC62386-101, IEC62386-102, IEC62386-207
Others	Working Temp.	-25℃~+60℃
	Storage Temp.; Humidity	-40℃~85℃, 20-90%RH
	Tc	90℃
	Material	Metal
	IP Rating	IP67
	Lifetime	50,000h@tc:85℃
	Warranty Condition	5 years
	Switch Cycle	>100,000 times
	Packing Size	Net weight: 820g±5%/PCS; 20PCS/Carton; 17kg±5%/Carton; Carton Size: 325*315*195mm(L*W*H)
	Dimension	270*61*25mm(L*W*H)

Dimension(mm)

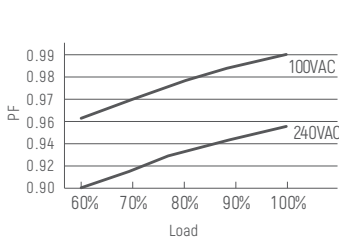
DALI2
DALI1

259

Brown(LED+)
Blue(LED-)

61

Brown(ACL)
Y/G(GND)
Blue(ACN)

270
250
25

Wiring Diagram

100~240VAC

L

N

L	Brown
N	Blue
⏚	Y/G
DA1	White
DA2	Gray

INPUT

DALI

OUTPUT

Brown LED+
Blue LED-

EUCHIPS
DALI MASTER
MODEL DALI400
CMD GRD POWER

DALI Master

Dimming Curve

Outout(%)

120
100
80
60
40
20
0

0.4
0.3
0.2
0.1

1 10 20 30 40 50

1 20 40 60 80 100 120 140 160 180 200 220 240 254

Load

Derating Curve

Load (%)

120
100
80
60
40
20
0

-20 -10 0 10 20 30 40 50 60

Ambient Temperature(°C)

PF vs Load

PF

0.99
0.98
0.97
0.96
0.95
0.94
0.93
0.92
0.91
0.90

100VAC

240VAC

60% 70% 80% 90% 100%

Load

Efficiency vs Load

Efficiency

90.00%
88.00%
86.00%
84.00%
82.00%
80.00%

240VAC

100VAC

60% 70% 80% 90% 100%

Load

DALI Diagram

DALI 控制器

DA
DA
L
N

DALI Driver 1

LED+
LED-

DA
DA
L
N

DAL Driver 2

LED+
LED-

DA
DA
L
N

DALI Driver 3

LED+
LED-

L
N

Touch DIM(Push DIM) Diagram

N L

Push Panel

DA
DA
L
N

DALI Driver 1

LED+
LED-

DA
DA
L
N

DALI Driver 2

LED+
LED-

DA
DA
L
N

DALI Driver 3

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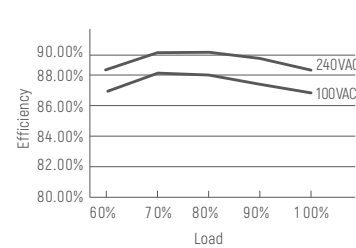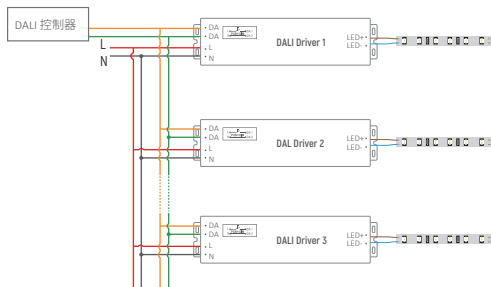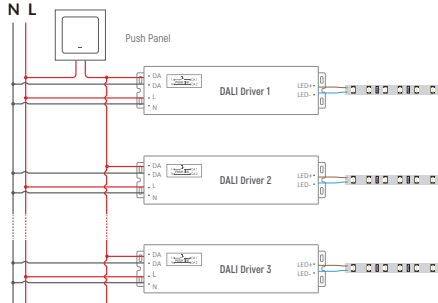
Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20

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 time after pressing switch.

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 with long 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	3	6

※ 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