LED Driver Specification Data Sheet
Model: LCP320D-2H24V

MADE IN CHINA · 5 YEARS

Product Features

- 2 Channels of constant voltage output, each carrying 13.3A separately. When carrying multiple loads, the cumulative load shall not exceed 13.3A
- Meet DALI protocol IEC 62386 DT8
- Wide input voltage of 220VAC ~ 240VAC
- Dimming effect smooth, no flicker
- Overload protection; short circuit protection
- IP20, suitable for indoor LED lighting application

Technical Specification:

Input

- Efficiency: ≥92%@230VAC, Full load
- Voltage: 220VAC – 240VAC
- Frequency Range(Hz): 50/60Hz
- Power Factor: 0.95@230VAC, full load
- AC Current(max): 1.6A max @230VAC
- Standby Power: ≤ 2W
- Inrush Current Max: Cold start, 80A at 230VAC

Output

- Current/Voltage/Power: 13.3A / 24VDC / 320W
- Channel: 2
- Ripple Voltage: 3%
- Turn on Delay Time: ≤ 0.8 s, at230Vac (When the light begins to shine)
- No Load Output Voltage: 25.2 VDC max

Function

- Dimming Type: DALI Dimming
- Dimming Range: 0.5% - 100% Dimming to off
- Dimming Curves: Logarithm
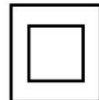- Color Temperature: 2700k to 6500k

Protection

- Short Circuit: No output is shown in case of a short circuit, troubleshooting indicates normal operation.
- Overload: If there's no output, troubleshooting confirms normal operation.

Safety & EMC

- Surge Protection: L-N: 1KV
- TC: 90°C
- Material: Polycarbonate (PC)
- IP Rating: IP20
- Lifetime: 50,000 hours at TC 75°C
- Warranty: 5 years
- Switch Cycles: 25,000 times
- Dimensions: 360mm x 40mm x 32mm (L x W x H)

Packaging (Weight)

- Net weight: 630g ± 5% per piece 25 pieces per carton
- Total carton weight: 16.25kg ± 5%
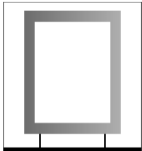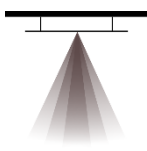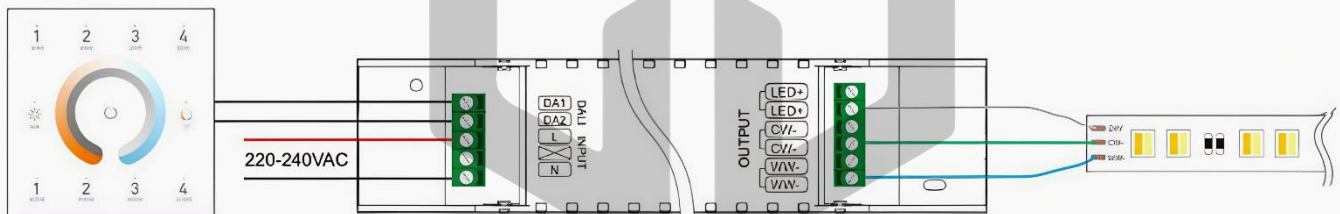- Carton dimensions: 377mm x 241mm x 196mm (L x W x H)
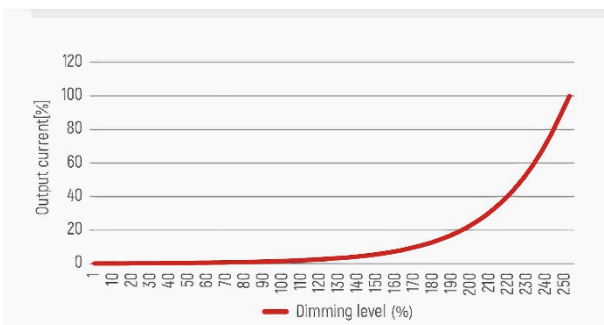
Application

Light Box   LED Tube

Dimensions(mm)

360

40

32
30

DALI Wiring

1 2 3 4

1 2 3 4

220-240VAC

DA1
DA2
L
N

DALI INPUT

OUTPUT

LED+
LED+
CV/-
CV/-
V/V-
V/V-

24V
CH+
COM+
168A-

Dimming Curve

Output current[%]

120
100
80
60
40
20
0

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250

— Dimming level (%)

Derating Curve

120
100
80
60
40
20
0

1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49
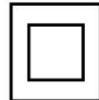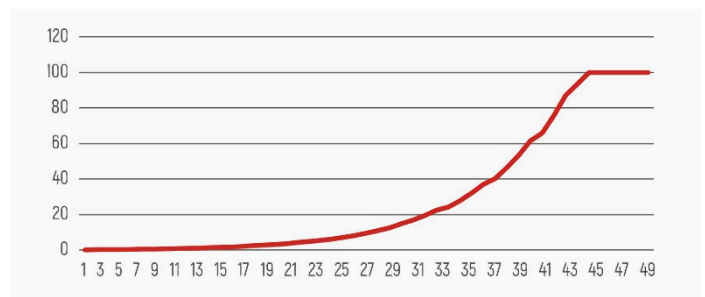
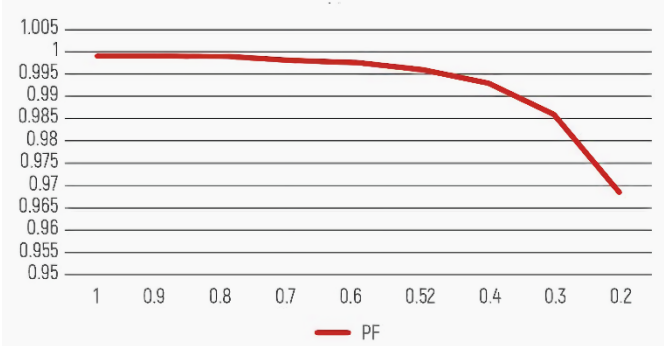STRETCH CEILING   DALI   CE   SELV
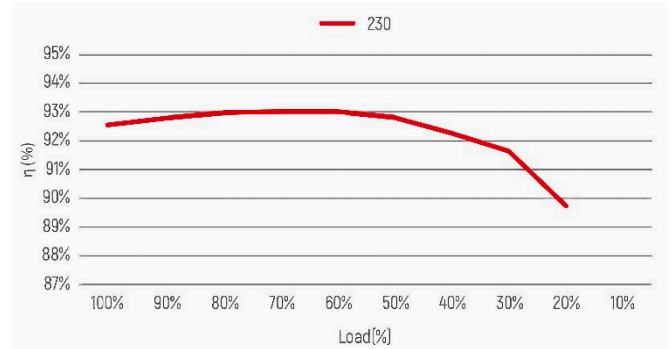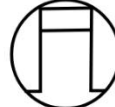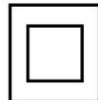
PF vs Load

EFF vs Load

Cautions

- Only qualified professionals should install and debug this product.
- The product is not waterproof, please protect it from direct sunlight and rain. For outdoor use, install it inside a waterproof enclosure.
- Proper heat dissipation extends the product's life. Ensure installation in a well-ventilated area.
- Verify that the output voltage and current of the LED power supply meet the product's requirements.
- Use adequately sized cables between the controller and LED lights to handle the current, ensuring secure cable connections in the connectors.
- For safety, use PVC or rubber cords of 0.75-1.5mm² for input and output terminals (excluding signal terminals). Do not use flat power cords. Ensure proper wiring and polarity before powering on to avoid damaging the LED lights.
- If a malfunction occurs, do not attempt repairs on your own.