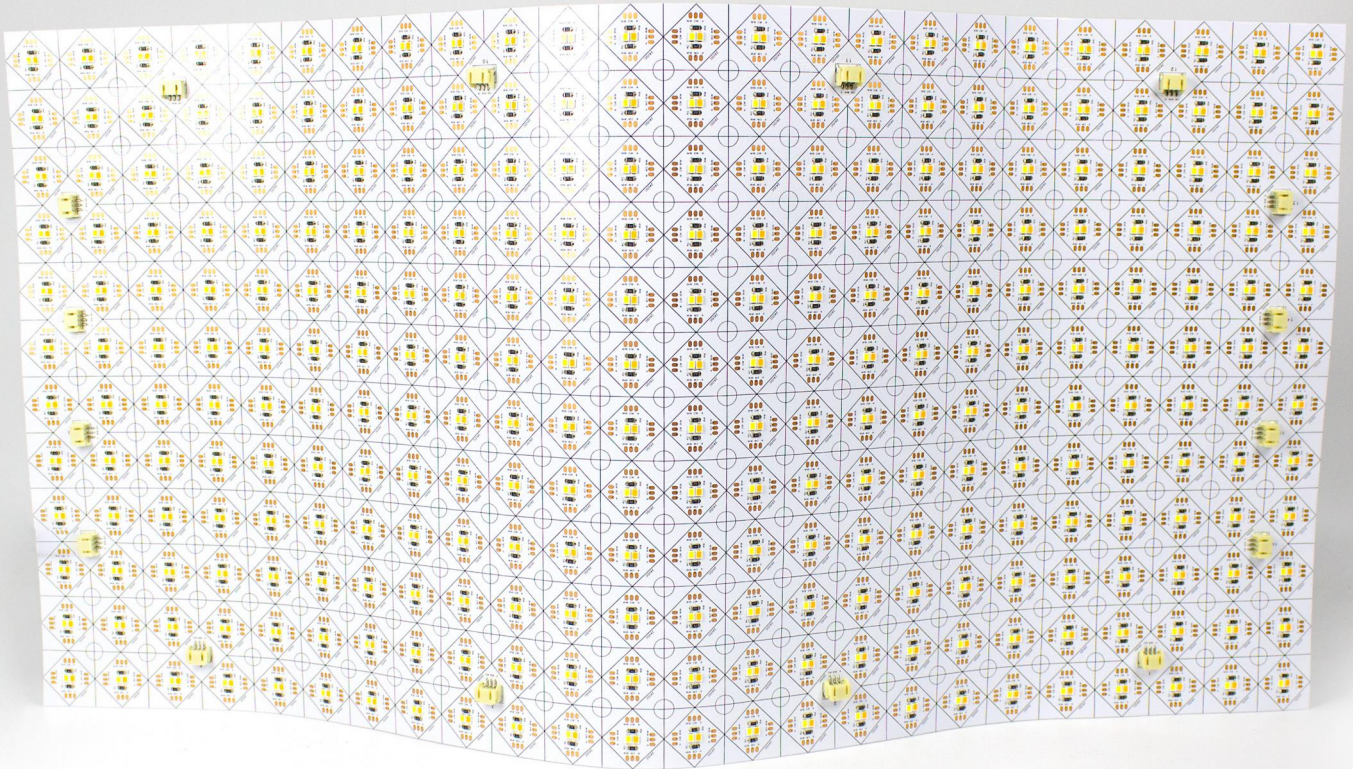


# PRODUCT DATA SHEET

## PANEL FLEX SERIES

Dual Color 2835 576LEDs/sheet 40W/Sheet

Standard Size: **600\*300mm**



ARC-LS-600X300-CCT-1800-6500K



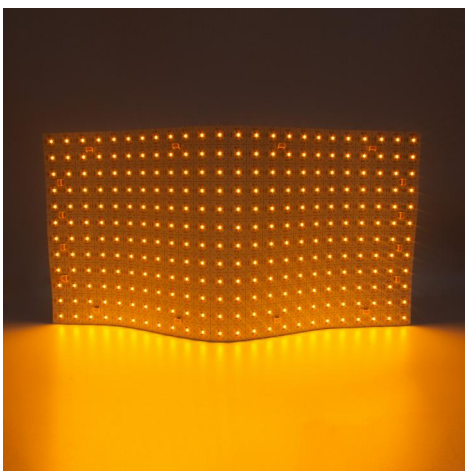
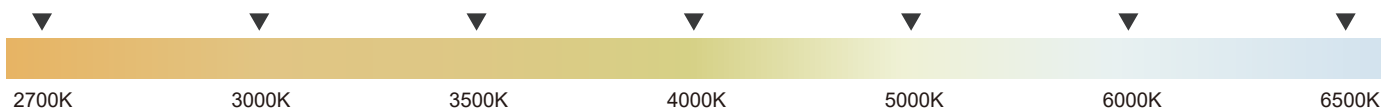
# PRODUCT DATA SHEET

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## Product Features

1. 600\*300mm size, 576LEDs/piece.
2. Tunable white option, 2LEDs/cut. Customer can customize shape by themselves.
3. CCT 1800K+6500K, other can be customized.
4. No soldering. With 16 terminals (plugs) on the sheets, more convenient connection with the accessories we provide.
5. Ideally suitable for backlighting of counter and bar tops and advertisement board.
6. More specific customizations like wattage, size, cuttable area is provided.
7. Warranty: 3 years.

## CCT Option



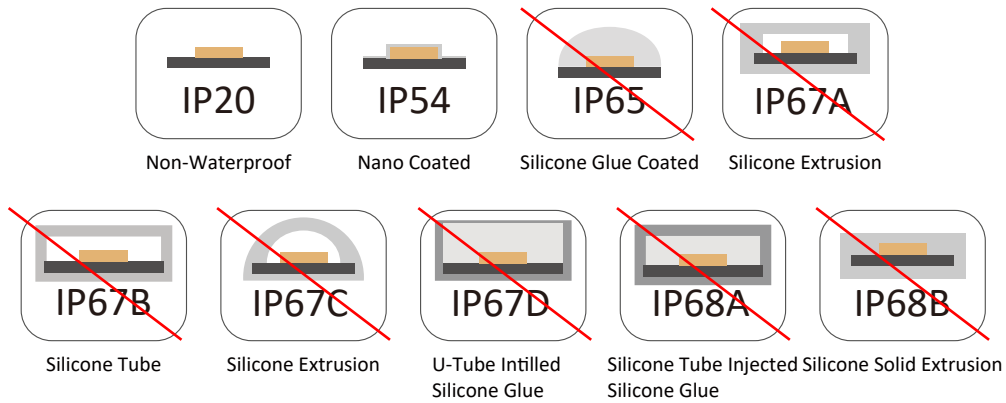
Lighting Effect



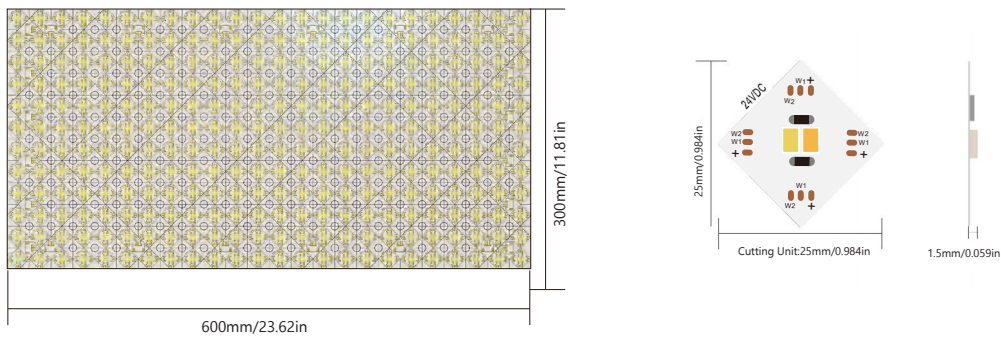
Lighting Effect

# PRODUCT DATA SHEET

## IP Rating Option



## Dimension(mm/inch)



| Length        | Width         | Height        | Min.Cutting                         |
|---------------|---------------|---------------|-------------------------------------|
| 600mm/23.62in | 300mm/11.81in | 1.5mm/0.059in | Every 25*25mm/0.984*0.984in (2LEDs) |

### Note:

Led panel sheet length tolerance is  $\pm 10$ MM based on 5M/roll, IP20 & IP54.

# PRODUCT DATA SHEET

## Data

| Part Number                   | Working Voltage | Power     | Current      | LED Qty       | CRI |
|-------------------------------|-----------------|-----------|--------------|---------------|-----|
| ARC-LS-600X300-CCT-1800-6500K | 24V             | 40W/Sheet | 1.674A/Sheet | 576LEDs/Sheet | 90+ |

| CCT (°K)   | Luminous Efficiency | Lumen/Sheet  | Size      |
|------------|---------------------|--------------|-----------|
| 1800K(20W) | 65lm/W              | 1316lm/Sheet | 600*300MM |
| 3500K(40W) | 82lm/W              | 3285lm/Sheet | 600*300MM |
| 6500K(20W) | 97lm/W              | 1948lm/Sheet | 600*300MM |

## Note:

The data base on IP20.

The Lumen output value tolerance is  $\pm 5\%$  due to testing way.

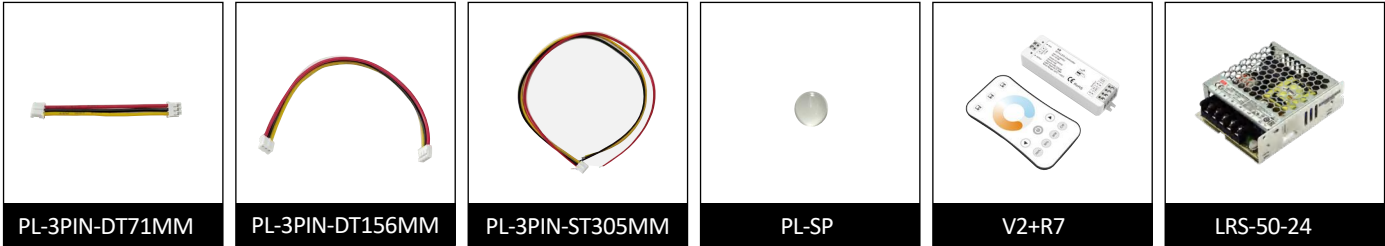
The CCT tolerance is  $\pm 5\%$  due to testing way.

## Absolute Maximum Ratings

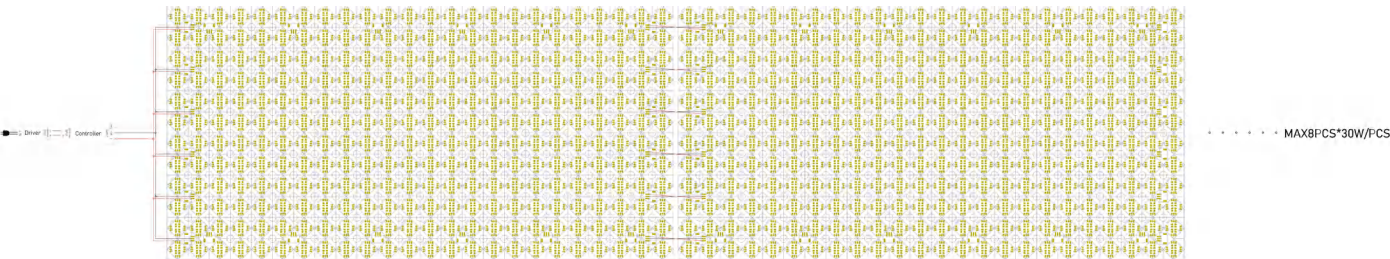
| Parameter                 | Symbol | Value                |
|---------------------------|--------|----------------------|
| Thermal Measurement Point | Tc     | 80°C/176°F           |
| Operating Temperature     | Topr   | <80°C/<176°F         |
| Storage Temperature       | Ts     | -20~+ 60°C/-68~140°F |
| Number of FPC Connection  |        |                      |

# PRODUCT DATA SHEET

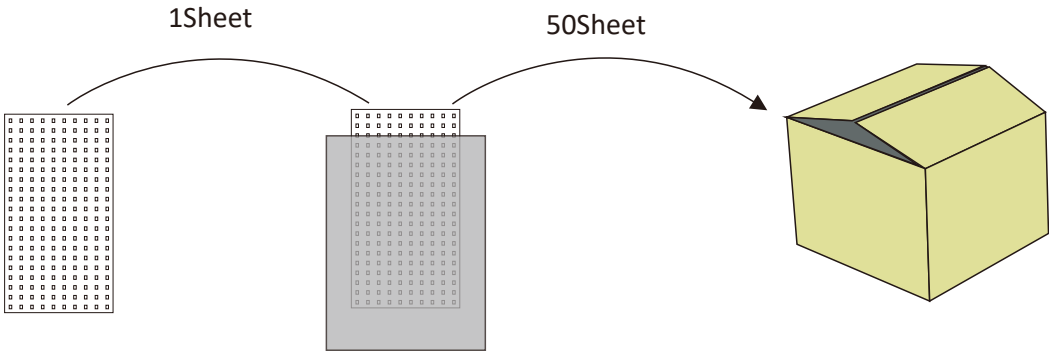
## Wiring Diagram Application



## Wiring Diagram Application



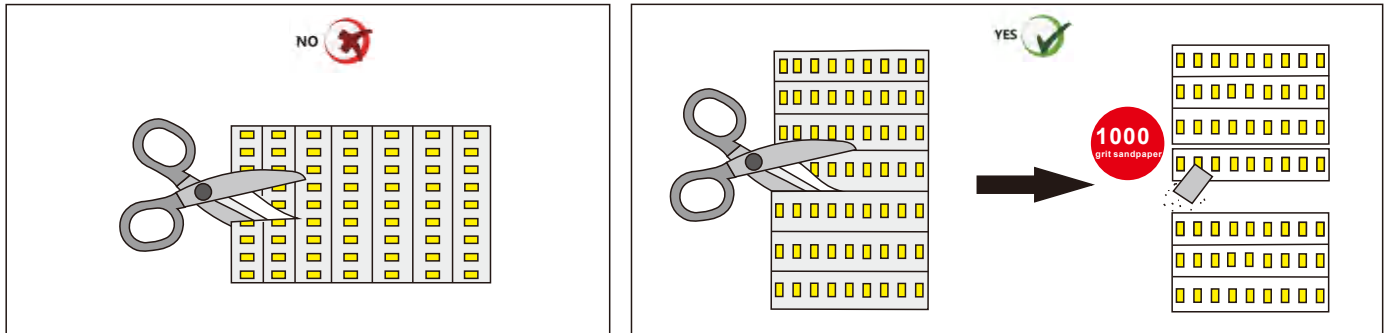
## Packaging



# PRODUCT DATA SHEET

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## Cautions



### Special attention:

( After cutting, you need to pay attention to grinding, otherwise there will be a short circuit when rolling.

Because the front is negative and the back is positive, if it is not polished, there is a risk of connecting the upper and lower poles, resulting in a short circuit.

(Use sharp scissors, sand with 1000-grit sandpaper, and use a blade to scrape off any copper foil that may short-circuit)

## Safety & Disclosure

1. Do not install the panel flex in environment where excessive heat may occur.
2. Only use copper wiring. Use wires rated for at least 176°F(80°C) and certified for use with external connection of electrical equipment.
3. Do not install IP20 panel flex products in outdoor / wet location environments.
4. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
5. Improper wire selection and installation could overheat wires, and cause fire.
6. Do not connect directly to high voltage or AC power.
7. Installation must be in accordance with local and national electrical code regulations.
8. To ensure safety and correct installation, our product are intended to be installed by a qualified Licensed electrician.

# PRODUCT DATA SHEET

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## Installation method

1. Hit the screw;
  2. Thermally conductive double-sided tape, mounted on the radiator;
- (The radiator is 1.2-3.0MM thick, and the 6063 aluminum plate is used for heat dissipation)

## Note

### 1) Heat dissipation:

The closed space needs to add holes on the side to ensure that the internal temperature is radiated outwards: If it is installed on the wall, holes should be punched around the sides to allow the internal air to circulate with the outside air, increase heat dissipation and reduce temperature. If with more quantity, it is also necessary to increase the fan to form an inhalation and exhalation.

### 2) Connection Wiring:

- Max to 30 pcs connections, 5pcs (vertical) \* 6pcs (horizontal), using 18AWG wire.
- Terminal connectors are only suitable for 2-3 pcs of connection, because the carrying current is not enough, otherwise the connector will burn and the wires will melt.

### 3) Distance:

Eg:

When using a panel flex with lens to install, if the distance between the backlight source and the billboard is 5cm, the distance between the two panels is within 2cm; While with the lensless panel flex to install, as close as possible between the two panels.