V2.1

# Product Specification

## DC Flexible LED Strip

### 2835 8LEDs/unit Series

2835 Top LED 12mm FPC 192LEDs/M

WW-FLS102T29XW192B-24(WCP)-30-XR-DS-CV-HE
&
WW-FLS102T29XW192B-24(WCP)-30-XR-DS-CV-HE-EP


HK Office :
Unit 1901, 19th Floor, NanYang Plaza, No. 57 Hung To Road
Kwun Tong, Kowloon, Hong Kong

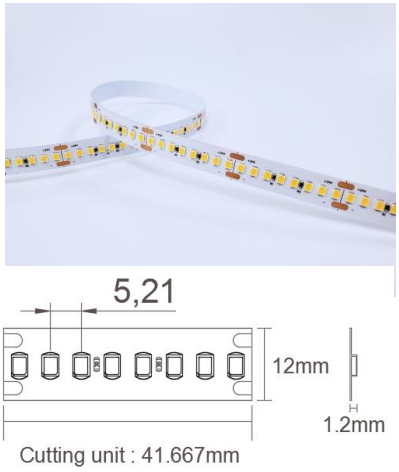
Tel : (852) 3152 3059 (10 lines)
Fax : (852) 3152 3039

China Factory :
Zhiyang Science and Technology Park, 10 Zhiyang Road, Zhangge,
Fucheng Street, Longhua District, Shenzhen, Guangdong, China

Tel : (86) 755 8601 9190
Fax : (86) 755 8601 9197

## Product Features

- High quality FPC, High thermal conductivity double-sided adhesive.
- Self-encapsulated design 2835 LED.
- Light source lifetime:50K hours(L70).
- Meet (EU)2019/2020 ErP regulations.
- Min. Bending Diameter: Φ60mm.
- Max. length(M): 3M.
- High LED density, High Lumen output.




## Technology info

- Lighting Technology: LED
- DLS or NDLS: NDLS
- MLS or NMLS: NMLS

## Certification Standards

- EN55015:2019
- EN61547:2009
- EN60598-1:2015
- EN60598-2-20:2015
- EN62493:2015
- EN62471:2008

| | |
|---|---|
| **Non-ErP Waterproof Type** |  B 20 |
| | Naked Strip |
| | 5 Years Warranty |

| | |
|---|---|
| **ErP Waterproof Type** |  B 20 |
| | Naked Strip |
| | 5 Years Warranty |

WW-FLS102T29XW192B-24(WCP)-30-XR-DS-CV-HE

## Parameters for non-erp

| IP Grade | Model NO. | CRI (Ra) | Rf | Rg | Typical Power (W/M) | Max. Power (W/M) | Color | LED Color Temp.(K) Wavelength(nm)* | 3SDCM LED Color Temp.(K) Wavelength(nm)** | Typ. Luminous Flux LM/M(39.37in) | Rated voltage |
|---|---|---|---|---|---|---|---|---|---|---|---|
| IP20 | WW-FLS102T29XW192B-24(WCP)-30-HR-DS-CV-HE | 80 | 82 | 96 | 23.20 | 25.52 | Warm White | 2700K | 2700K | 2900 | DC 24V |
| | | | | | | | Warm White | 3000K | 3000K | 3160 | |
| | | | | | | | Natural White | 4000K | 4000K | 3180 | |
| | | | | | | | Standard White | 6000K | 6000K | 3160 | |
| | WW-FLS102T29XW192B-24(WCP)-30-UR-DS-CV-HE | 90 | 90 | 100 | 23.20 | 25.52 | Warm White | 2500K | 2700K | 2420 | DC 24V |
| | | | | | | | Warm White | 2700K | 3000K | 2500 | |
| | | | | | | | Natural White | 4000K | 4000K | 2700 | |
| | | | | | | | Standard White | 6000K | 6000K | 2900 | |

Remarks:

- * The above color temperature is the color temperature of LED source.
- ** Indicates SDCM<3 model is available, part number will add the suffix "-3S".
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).
- This product must be equipped with aluminium profile in use, the heat radiating area >0.139m²/m.

Test condition of above technical data:

- Surrounding temperature: 26℃.
- Test while turning on.
- This series of products must be equipped with aluminum profiles when in use, and the surface area of the heat sink is required to be >530cm²/m.
- The above technical data, including typical power are based on the test of 0.5m.

WW-FLS102T29XW192B-24(WCP)-30-XR-DS-CV-HE-EP

## Parameters for erp

| IP Grade | Model NO. | CRI (Ra) | Rf | Rg | Typical Power (W/M) | Max. Power (W/M) | Color | LED Color Temp.(K) Wavelength(nm)* | Luminous Flux LM/M(39.37') | Lumen/watt | Energy Efficiency class | Rated voltage |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B 20 | WW-FLS102T29XW192B-24(WCP)-30-HR-DS-CV-HE-EP | 80 | 82 | 96 | 26.26 | 28.88 | Warm White | 2700K | 3520 | 122 | E | DC 24V |
| | | | | | | | Warm White | 3000K | 3784 | 131 | D | |
| | | | | | | | Natural White | 4000K | 3828 | 133 | D | |
| | | | | | | | Standard White | 6000K | 3762 | 130 | D | |
| | WW-FLS102T29XW192B-24(WCP)-30-UR-DS-CV-HE-EP | 90 | 90 | 100 | 26.26 | 28.88 | Warm White | 2700K | 2926 | 101 | F | DC 24V |
| | | | | | | | Warm White | 3000K | 2992 | 104 | E | |
| | | | | | | | Natural White | 4000K | 3256 | 113 | E | |
| | | | | | | | Standard White | 6000K | 3454 | 120 | E | |

Remarks:

- *The above color temperature is the color temperature of LED source.

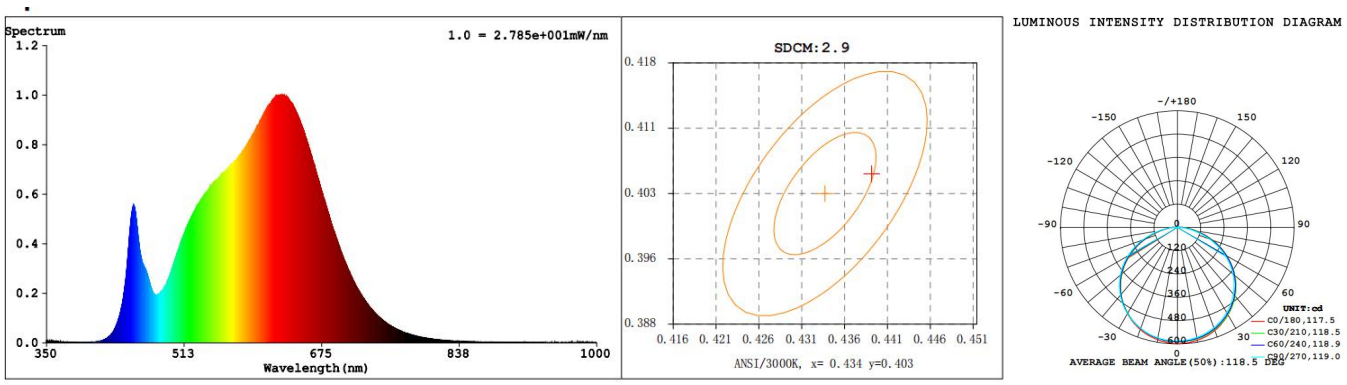
Test condition of above technical data:

- Surrounding temperature: 26 ℃.
- Test after 10 mins turned on.
- This series of products must be equipped with aluminum profiles when in use, and the surface area of the heat sink is required to be >530cm²/m.
- This product must be equipped with aluminium profile in use, the heat radiating area >0.139m²/m.

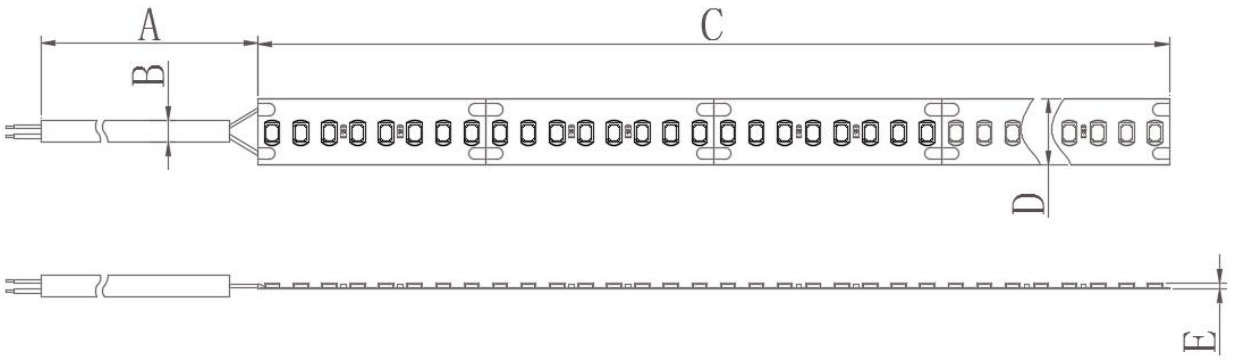
ErP Note:

- According to the new ErP 2019/2020 regulation for each 0.5m or nearest 0.5m strip, the following requirements must be met:
- Measured power ≤ Pon +5% ;
- Measured lumen ≥Useful luminous flux -10%;
- Measured CRI ≥ Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.

## Optical Test Diagram



## Dimension Drawing

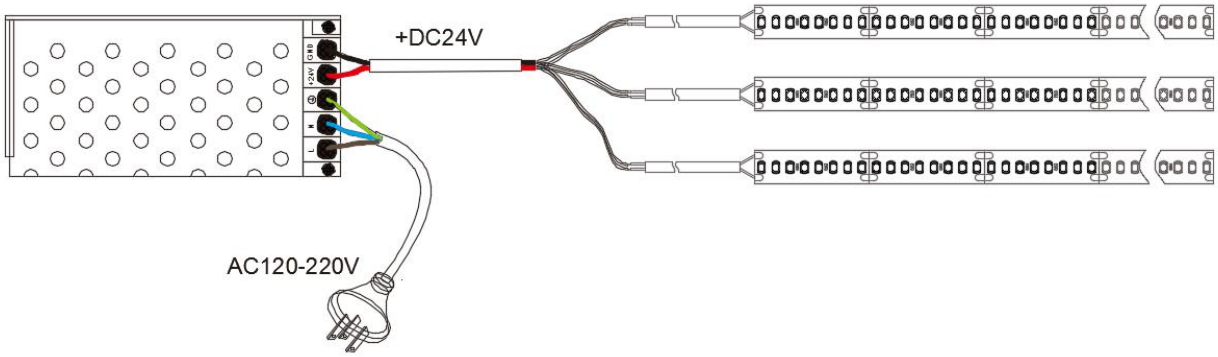



| IP Grade | A<br>Cable Length | B<br>cable diameter | C<br>Strip length | D<br>Strip width | E<br>Strip thickness | F<br>Front cap length | G<br>End cap length | H<br>Cap width | I<br>Cap thickness |
|---|---|---|---|---|---|---|---|---|---|
| IP 20 | 300±10mm | Φ4.0±0.2mm | 3000±50mm | 12±0.5mm | 1.2±0.2mm | / | / | / | / |
| | 11.81±0.39in | 0.157±0.01in | 118.1±1.97in | 0.47±0.02in | 0.047±0.02in | / | / | / | / |

**Remarks:**

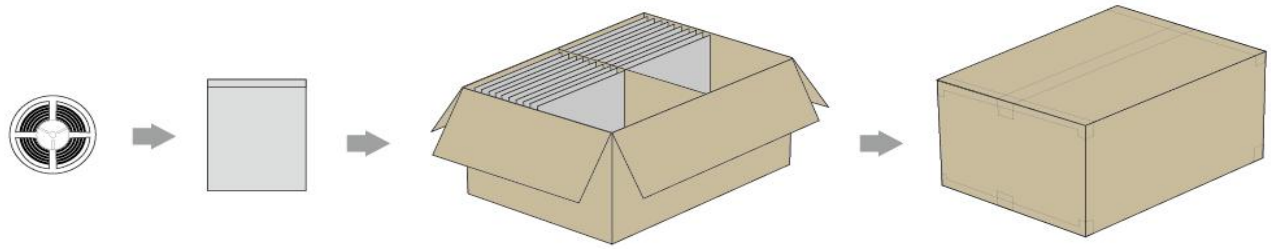
- If you need further information, please contact our sales manager.

## Circuit Diagram



## Packaging Diagram

| IP Grade | Category | Description | Picture | Part No. | Application |
|---|---|---|---|---|---|



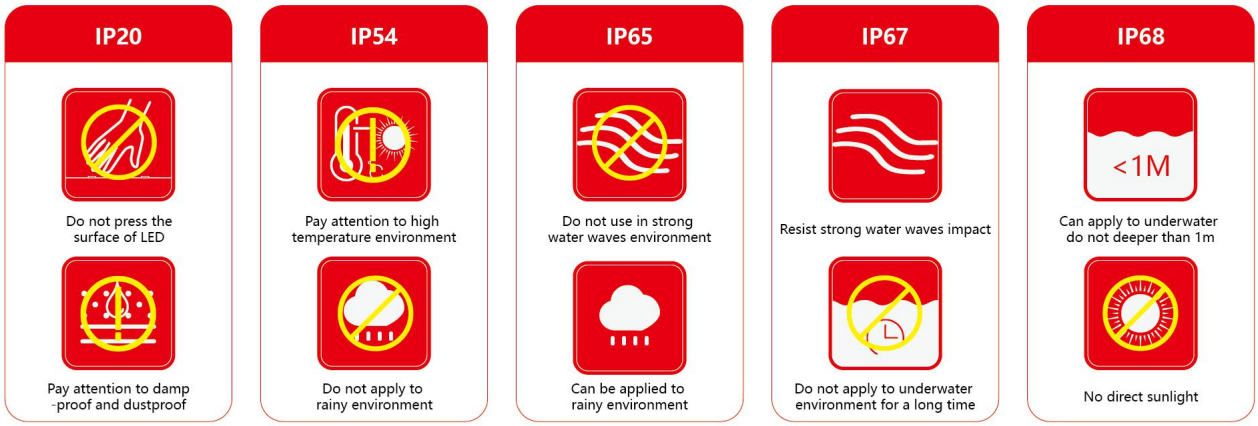
## Packaging Information

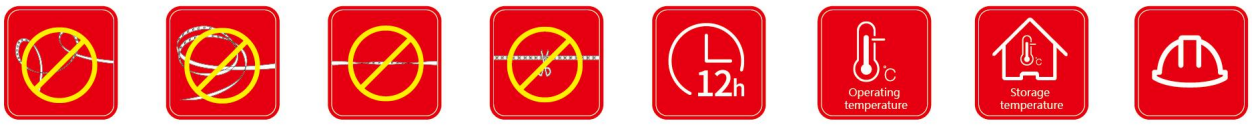
| IP Grade | Bag size | Inner carton | | Outer carton | | N.W | G.W | Outer carton volume |
|---|---|---|---|---|---|---|---|---|
| | | Size | Reel/ctn | Size | Reel/ctn | | | |
| IP 20 | 250*270*0.14mm | / | / | 440*400*260mm | 50 | 4.4KG ±10% | 7.9 KG ±10% | 0.05m³ |
| | 9.84*10.63*0.0056 in | / | / | 17.32*15.75 *10.24 in | 50 | 9.7 Lbs ±10% | 17.42 Lbs ±10% | 1.616 ft³ |

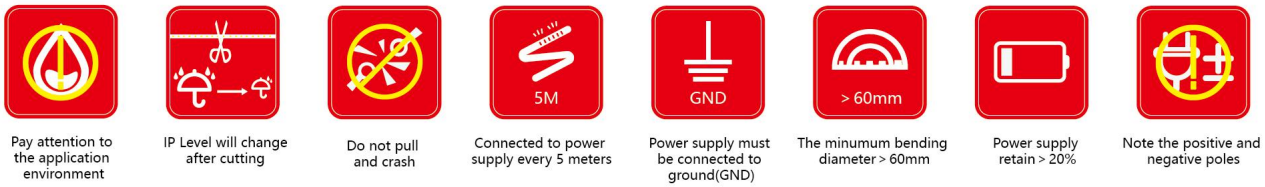
**Remarks :**

- Please contact our sales manager for customized package (color box, blister etc.)

# Cautions







For cutting LED strip operation, it is necessary to use the standard accessories provided by Dilux (e.g. DC wire, end-cap, front-cap, adhesive, etc.), and according to the correct cutting and connecting method for the installation.



For avoiding LED get vulcanized, LED strip should be installed in the environment where does not has oil and corrosive substances. Such as these substances which contain Sulphur、Bromine、Iodine and Chlorine. Some other chemical elements which will cause Aromatic hydrocarbons releasing(such as: methylbenzene、xylene、methyl acetoacetate Ethyl acetate etc.).The environment in which includes strong acid and strong base.



During the warranty period, only defective products are acceptable to be replaced by the factory. Factory is not responsible for other expenses because of replacement, such as transportation fee, installation fee, etc..

**** If you do not follow the above "Cautions" to operate and result in damaging the product, the factory will not accept maintenance and return.**
****The right of final interpretation is owned by Dilux.**

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