



**NATIONSTAR**  
—SINCE 1969—



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—SINCE 1969—

# LED LIGHTING

## CATALOGUE FOR U.S.A.



LED STRIPS



LED TUBE



LED PANEL

**FOSHAN NATIONSTAR OPTOELECTRONICS CO.,LTD**

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***NATIONSTAR, LIGHTING UP THE WORLD***

**01 BRIEF INTRODUCTION**

Foshan NationStar Optoelectronics Co.,Ltd has been specializing in LED industry for over 40 years, and started LED lighting manufacturing since 2004. With a strong R&D ability, reliable product quality and excellent after-sales service, NationStar becomes a leading manufacturer for chips, LEDs and LED lighting products.



**Headquarters, Northern Area**

**LED Module Division**

Land Area: 280,000 sq ft  
Floor Area: 500,000 sq ft

**Headquarters, Southern Area**

LED Lighting Division  
White LED Division  
RGB LED Division

Land Area: 380,000 sq ft  
Floor Area: 1,000,000 sq ft



**NationStar Semiconductor**

**LED wafer & LED chip production facilities**

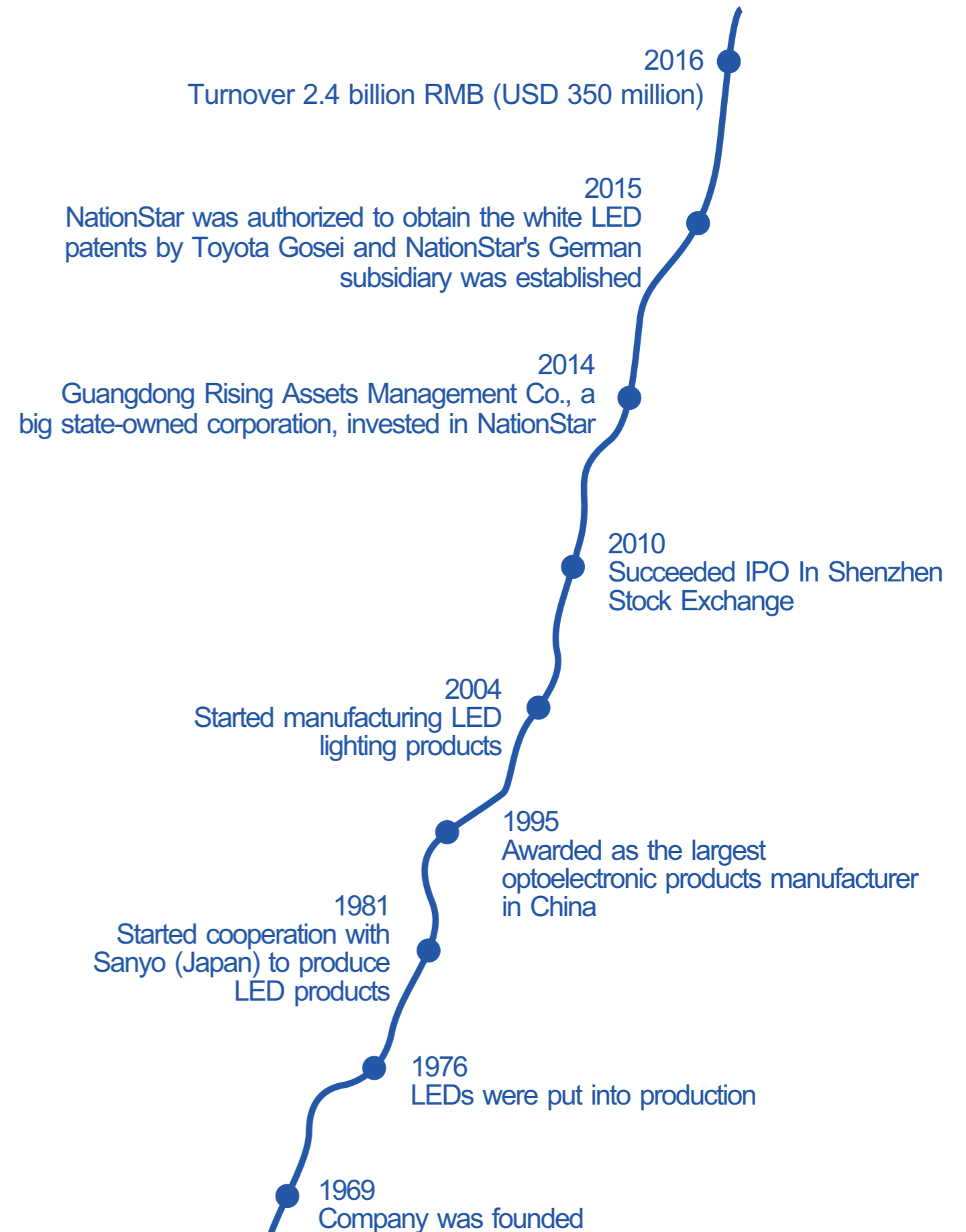
Land Area: 350,000 sq ft  
Floor Area: 600,000 sq ft



**02 INDUSTRIAL CHAIN**



**03 HISTORY**



04 PRODUCTION FACILITIES



NationStar Semiconductor



LED Encapsulation



SMT Production Line



Production Line for LED Panel



Production Line for LED Tape Light



Testing Lab

05 MANAGEMENT SYSTEMS



OHSAS18001 occupation health and safety management system



ISO9001 quality management system



ISO14001 environmental management system



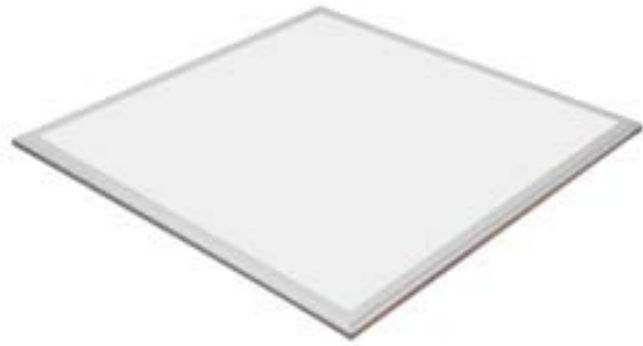
ISO-TS16949 quality management system



ISO/IEC 17025:2005 General Requirements



Edge Lit LED Panel



## Multi-wattage Edge Lit LED Panel

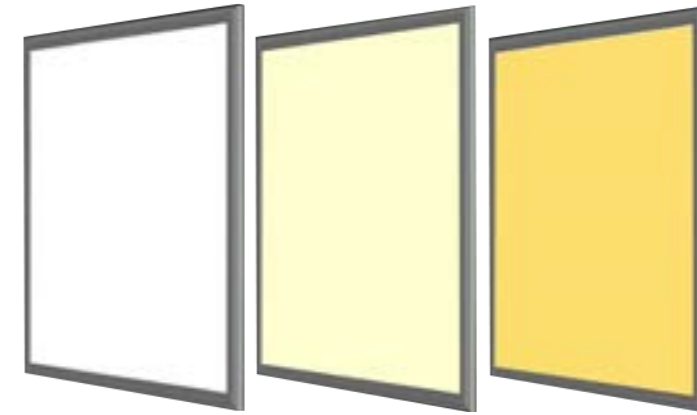


### FEATURES

- Different lumen output integrated in the same panel to reduce stock quantity.
- The driver is inserted into the back of the panel and can be dismountable to save the shipping volume and cost.
- Option for efficacy: 100lm/W and 125lm/W.
- Ideal energy-efficiency replacements for fluorescent fixtures in offices, schools, hospitality, health care and other commercial and industrial applications.

### PERFORMANCE

Model No.	Size(inch)	Input Voltage Range(V)	Input Wattage (W)	Lumen (lm)	Efficacy (lm/W)	Color Rendering Index (CRI)	Color Temperature (CCT)	Power Factor	DLC
NS-PLS-6060	23.75x23.75x0.39 (2x2)	AC100-277	20-50	2000-5000	100	>80	3000/3500/4000/5000	>0.9	V4.1 Standard
			20-40	2500-5000	125				V4.1 Premium
NS-PLS-60120	23.75x47.75x0.39 (2x4)	AC100-277	30-50	3000-5000	100	>80	3000/3500/4000/5000	>0.9	V4.1 Standard
			24-48	3000-6000	125				V4.1 Premium



## CCT Tunable Edge Lit LED Panel

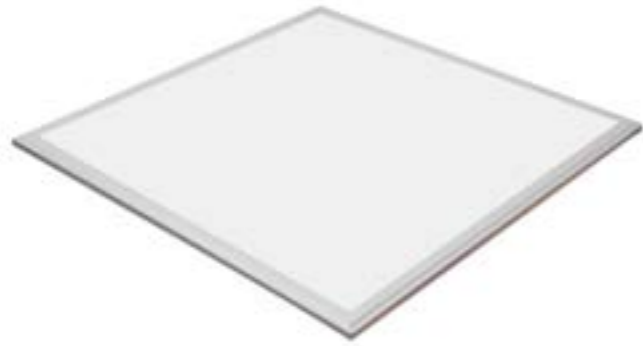


### FEATURES

- 2.4G RF wireless control.
- Ideal energy-efficiency replacements for fluorescent fixtures in offices, schools, hospitality, health care and other commercial and industrial applications.
- 3500K to 5000K continuous control, 100lm/W, with remote controller.

### PERFORMANCE

Model No.	Size(inch)	Input Voltage Range(V)	Input Wattage (W)	Lumen (lm)	Efficacy (lm/W)	Color Rendering Index (CRI)	Color Temperature (CCT)	Power Factor	DLC
NS-PLS-6060	23.75x23.75x0.39 (2x2)	AC100-277	40	4000	100	>80	3500-5000K	>0.9	V4.1 Standard
NS-PLS-60120	23.75x47.75x0.39 (2x4)	AC100-277	50	5000	100	>80	3500-5000K	>0.9	V4.1 Standard



## ECO Edge Lit LED Panel

AC100-277V 120° 0-10V IP20 No flicker

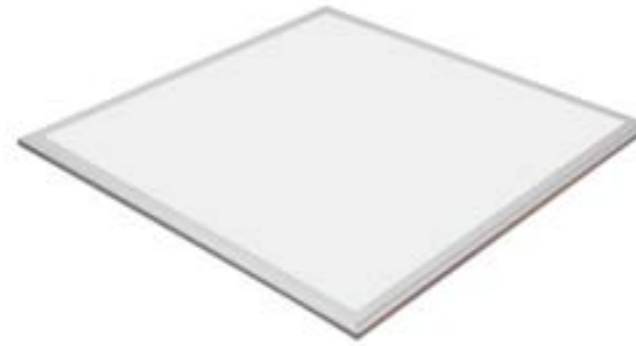
UL LISTED DLC FC 5 YEAR RoHS COMPLIANT

### FEATURES

- Efficacy: 100lm/W, 0-10V dimming.
- Ideal energy-efficiency replacements for fluorescent fixtures in offices, schools, hospitality, health care and other commercial and industrial applications.
- The driver is inserted into the back of the panel and can be dismountable to save the shipping volume and cost.

### PERFORMANCE

Model No.	Size(inch)	Input Voltage Range(V)	Input Wattage (W)	Lumen (lm)	Efficacy (lm/W)	Color Rendering Index (CRI)	Color Temperature (CCT)	Power Factor	DLC
NS-PLS-6060	23.75x23.75x0.39 (2x2)	AC100-277	40	4000	100	>80	3000/3500/4000/5000	>0.9	V4.1 Standard
NS-PLS-30120	11.75x47.75x0.39 (1x4)	AC100-277	40	4000	100	>80	3000/3500/4000/5000	>0.9	V4.1 Standard
NS-PLS-60120	23.75x47.75x0.39 (2x4)	AC100-277	50	5000	100	>80	3000/3500/4000/5000	>0.9	V4.1 Standard



## Regular Edge Lit LED Panel

AC100-277V 120° 0-10V IP20 No flicker

UL LISTED DLC FC 5 YEAR RoHS COMPLIANT

### FEATURES

- Efficacy: up to 130lm/W, 0-10V dimming.
- Ideal energy-efficiency replacements for fluorescent fixtures in offices, schools, hospitality, health care and other commercial and industrial applications.

### PERFORMANCE

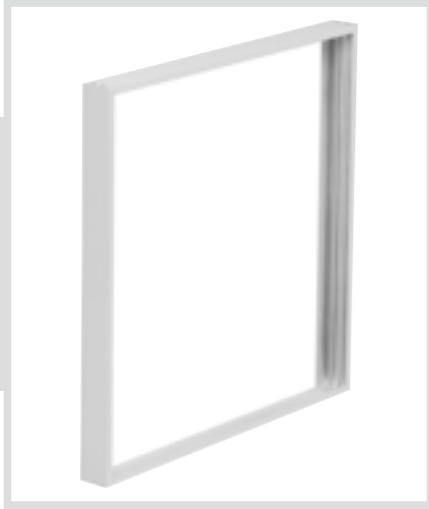
DLC V4.1 Standard

Model No.	Size(inch)	Input Voltage Range(V)	Input Wattage (W)	Lumen (lm)	Efficacy (lm/W)	Color Rendering Index (CRI)	Color Temperature (CCT)	Power Factor
NS-PLS-6060	23.75x23.75x0.39 (2x2)	AC100-277	27	3105	115	>80	3000/3500/4000/5000	>0.9
			40	4600	115			
			47	5405	115			
NS-PLS-30120	11.75x47.75x0.39 (1x4)	AC100-277	40	4400	110	>80	3000/3500/4000/5000	>0.9
			50	5500	110			
NS-PLS-60120	23.75x47.75x0.39 (2x4)	AC100-277	72	8280	115	>80	3000/3500/4000/5000	>0.9

DLC V4.1 Premium

Model No.	Size(inch)	Input Voltage Range(V)	Input Wattage (W)	Lumen (lm)	Efficacy (lm/W)	Color Rendering Index (CRI)	Color Temperature (CCT)	Power Factor
NS-PLS-6060	23.75x23.75x0.39 (2x2)	AC100-277	25	3250	130	>80	3000/3500/4000/5000	>0.9
			30	3900	130			
			36	4680	130			
NS-PLS-60120	23.75x47.75x0.39 (2x4)	AC100-277	42	5460	130	>80	3000/3500/4000/5000	>0.9
			40	4800	120			
			47	5640	120			
			60	7200	120			

## SUSPENDING KIT:



Surface mounted frame

Pendant mounted wire rope



Emergency backup



LED T8



## UL/DLC By Pass LED T8 (Type B)

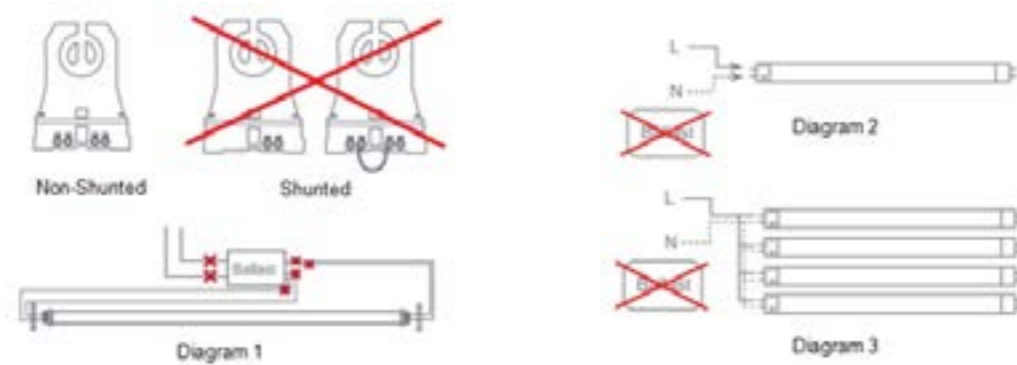
G13 Caps AC100-277V 270° IP20



### FEATURES

- Built-in universal voltage driver, by pass installation.
- Wide beam design 270 degree wide viewing.
- Exceptional lighting efficiency up to 130lm/W, perfect replacement of the traditional fluorescent tube.
- End-to-end lighting with no dark spots.

### INSTALLATION INSTRUCTION



### PERFORMANCE

Model No.	Length(ft)	Input Voltage Range(V)	Wattage (W)	Lumen (lm)	Efficacy (lm/W)	Color Rendering Index (CRI)	Color Temperature (CCT)	Power Factor	DLC
NS-T8-2H9-XW	2	AC100-277	9	990	110	>80	3000/3500/4000/5000	>0.9	V4.1
NS-T8-3H15-XW	3	AC100-277	15	1500	100	>80	3000/3500/4000/5000	>0.9	/
NS-T8-4H15-XW	4	AC100-277	15	1800	120	>80	3000/3500/4000/5000	>0.9	V4.1
NS-T8-4H18-XW-H	4	AC100-277	18	2200	120	>80	3000/3500/4000/5000	>0.9	V4.1
NS-T8-5H20-XW	5	AC100-277	20	2600	130	>80	3000/3500/4000/5000	>0.9	/



## UL/DLC Direct Fit LED T8 (Type A)

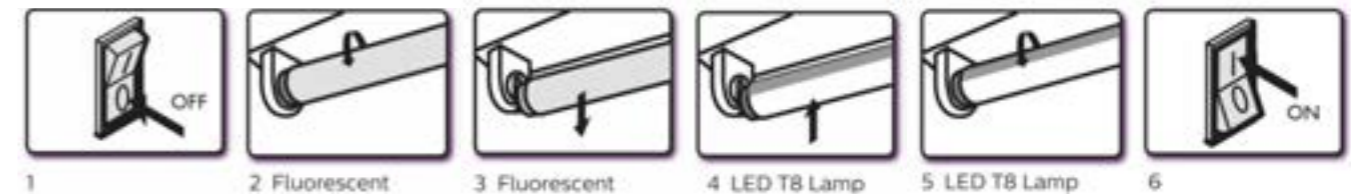
G13 Caps AC100-277V 270° IP20



### FEATURES

- Compatible with more than 200 kinds of normal electronic instant start ballasts, no rewiring.
- Wide beam design 270 degree wide viewing.
- Exceptional lighting efficiency up to 150lm/W, perfect replacement of the traditional fluorescent tube.
- End-to-end lighting with no dark spots .

### INSTALLATION INSTRUCTION



### PERFORMANCE

Model No.	Length (ft)	Input Voltage Range(V)	Wattage (W Bare lamp)	Wattage (W System)	Lumen (lm)	Efficacy (lm/W)	Color Rendering Index (CRI)	Color Temperature (CCT)	Power Factor	DLC
NS-T8-2HB10-XW	2	AC120-277	8	10	1100	138	>80	4000/5000	>0.9	V4.1
NS-T8-4HB14-XW	4	AC120-277	12	14	1800	150	>80	3000/3500/4000/5000	>0.9	V4.1
NS-T8-4HB18-XW	4	AC120-277	16	18	2200	137	>80	3000/3500/4000/5000	>0.9	V4.1



# LED Strip

## LED STRIP NEW DESIGN STRIP



High efficacy 160lm/W LED Flex Strips

- ◆Efficacy is as high as 160lm/W
- ◆PCB width 0.39inch, DC24V
- ◆64LED/meter, 1.8W/ft, 290lm/ft, 16.4ft/roll, 32ft max. running length
- ◆128LED/meter, 3.5W/ft, 560lm/ft, 16.4ft/roll, 32ft max. running length



CRI 95 LED Flex Strips

- ◆CRI is as high as 95
- ◆PCB width 0.31/0.39inch, DC24V
- ◆18LED/ft, 1.5W/ft, 125lm/ft, 16.4ft/roll, 16.4ft max. running length
- ◆36LED/ft, 3.7W/ft, 305lm/ft, 16.4ft/roll, 16.4ft max. running length



RGBW LED Flex Strips

- ◆With 4 in 1 RGBW LED, multi colors (red, green, blue, white)
- ◆PCB width 0.47inch, DC24V
- ◆18LED/ft, 5.7W/ft, R 30lm/ft, G 52lm/ft, B 14lm/ft, W 110lm/ft
- ◆16.4ft/roll, 16.4ft max. running length



CCT Tunable LED Flex Strips

- ◆Strips can be used with controller to change the color temperature
- ◆CCT from 2700 to 6000K
- ◆PCB width 0.39inch, DC24V
- ◆72LED/ft, 1.8W/ft, CW 183lm/ft, WW 152lm/ft, 16.4ft/roll, 16.4ft max. running length
- ◆72LED/ft, 3.7W/ft, CW 335lm/ft, WW 293lm/ft, 10ft/roll, 10ft max. running length



Bendable LED Flex Strips

- ◆Strips can be bended more than 90°
- ◆PCB width 0.24inch, DC24V
- ◆18LED/ft, 1.2W/ft, 128lm/ft
- ◆16.4ft/roll, 16.4ft max. running length



# LED STRIP

## NON-WATERPROOF LED STRIP

### FEATURES

- High brightness SMD
- Strips can be cut every 5cm/10cm and reconnect
- Variety of optional colors and accessories
- Standard PCB color: White
- CRI 80/90
- 3M adhesive backing
- Suitable for dry locations



18pcs 2835 LED 1.2W per ft	18pcs 2835 LED 1.5W per ft	18pcs 2835 LED 3.7W per ft	36pcs 2835 LED 3.7W per ft	36pcs 2835 LED 7.3W per ft	72pcs 2835 LED 6.1W per ft	18pcs 5050RGB LED 5.7W per ft
<ul style="list-style-type: none"> <li>• 10ft max. running length</li> <li>• 159LM/ft</li> <li>• PCB width 0.19inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• 159LM/ft</li> <li>• PCB width 0.39inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• 305LM/ft</li> <li>• PCB width 0.39inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• 335LM/ft</li> <li>• PCB width 0.39inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 10ft max. running length</li> <li>• 640LM/ft</li> <li>• PCB width 0.39inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 10ft max. running length</li> <li>• 610LM/ft</li> <li>• PCB width 0.47inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• R: 38LM/ft G:92LM/ft B: 19LM/ft W:127LM/ft</li> <li>• PCB Width: 0.39inch</li> <li>• DC 24V input</li> </ul>
 <p><b>COOL WHITE</b> NS-FA3528CW18-24-4.8</p>	<p><b>COOL WHITE</b> NS-FA3528CW18-24</p>	<p><b>COOL WHITE</b> NS-FA3528CW18-24-B</p>	<p><b>COOL WHITE</b> NS-FA3528CW36-24</p>	<p><b>COOL WHITE</b> NS-FA3528CW36-24-UB</p>	<p><b>COOL WHITE</b> NS-FA3528CW72-24</p>	<p>NS-FA5050RGB18-24</p>
 <p><b>NEUTRAL WHITE</b> NS-FA3528NW18-24-4.8</p>	<p><b>NEUTRAL WHITE</b> NS-FA3528NW18-24</p>	<p><b>NEUTRAL WHITE</b> NS-FA3528NW18-24-B</p>	<p><b>NEUTRAL WHITE</b> NS-FA3528NW36-24</p>	<p><b>NEUTRAL WHITE</b> NS-FA3528NW36-24-UB</p>	<p><b>NEUTRAL WHITE</b> NS-FA3528NW72-24</p>	<p><b>18pcs 3528 LED 1.2W per ft</b></p>
 <p><b>WARM WHITE</b> NS-FA3528WW18-24-4.8</p>	<p><b>WARM WHITE</b> NS-FA3528WW18-24</p>	<p><b>WARM WHITE</b> NS-FA3528WW18-24-B</p>	<p><b>WARM WHITE</b> NS-FA3528WW36-24</p>	<p><b>WARM WHITE</b> NS-FA3528WW36-24-UB</p>	<p><b>WARM WHITE</b> NS-FA3528WW72-24</p>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• R: 34LM/ft Y: 30LM/ft G:67LM/ft B: 18LM/ft</li> <li>• PCB Width: 0.39inch</li> <li>• DC 24V input</li> </ul> <p>NS-FA3528R18-24 NS-FA3528Y18-24 NS-FA3528G18-24 NS-FA3528B18-24</p>

### Easy Installation in Anywhere



### Easy Installation in Anywhere



## Accessories for Non-waterproof Single Color LED Strip

### LED Strip In Line Dimmer

- 0-100% Dimming
- Can only be used in DC12/24V
- For indoor use only



### Power Feed

- Connects strips to power supply



## Single Color Connectors

### Inline Splice

- Connects 2 sections of the strips together



### Interconnect Cable

- Connects 2 sections of the strips together



### 3-Way Connector

- Connects 3 sections of the strips together
- One input, two outputs
- Ideal for making "T" & "Y" connections



### 4-Way Connector

- Connects 4 sections of the strips together
- One input, three outputs



## Accessories for Non-waterproof RGB LED Strip

### RGB Controller

- Must be used with RGB LED strips
- With remote controller
- Adjusts speed and brightness
- Connects between power supply and strips



### RGB Power Supply Leads

- Connects strips to power supply



Indoor Power Supply  
From 30W to 320W  
available



## RGB Connectors

### Inline Splice

- Connects 2 sections of the strips together



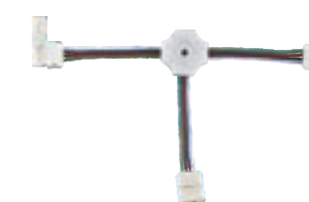
### Interconnect Cable

- Connects 2 sections of the strips together



### RGB 3-Way Connector

- Connects 3 sections of the strips together
- One input, two outputs
- Ideal for making "T" & "Y" connections



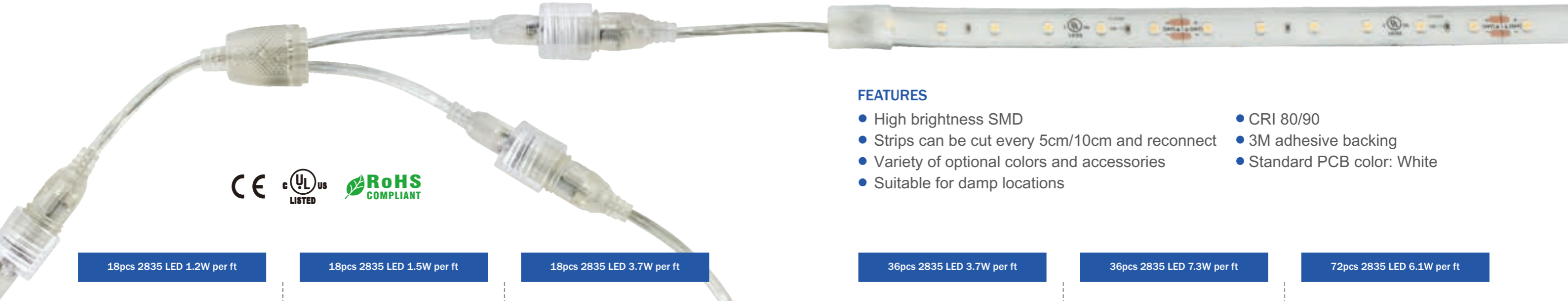
### RGB 4-Way Connector

- Connects 4 sections of the strips together
- One input, three outputs



# LED STRIP

## IP54 WATERPROOF LED STRIP



### FEATURES

- High brightness SMD
- Strips can be cut every 5cm/10cm and reconnect
- Variety of optional colors and accessories
- Suitable for damp locations
- CRI 80/90
- 3M adhesive backing
- Standard PCB color: White

18pcs 2835 LED 1.2W per ft	18pcs 2835 LED 1.5W per ft	18pcs 2835 LED 3.7W per ft	36pcs 2835 LED 3.7W per ft	36pcs 2835 LED 7.3W per ft	72pcs 2835 LED 6.1W per ft
<ul style="list-style-type: none"> <li>• 10ft max. running length</li> <li>• 151LM/ft</li> <li>• PCB width 0.19inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• 151LM/ft</li> <li>• PCB width 0.39inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• 290LM/ft</li> <li>• PCB width 0.39inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• 318LM/ft</li> <li>• PCB width 0.39inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 10ft max. running length</li> <li>• 608LM/ft</li> <li>• PCB width 0.39inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 10ft max. running length</li> <li>• 580LM/ft</li> <li>• PCB width 0.47inch</li> <li>• DC 24V input</li> </ul>
 <p><b>COOL WHITE</b> NS-FD3528CW18-24-4.8</p>	<p><b>COOL WHITE</b> NS-FD3528CW18-24</p>	<p><b>COOL WHITE</b> NS-FD3528CW18-24-B</p>	<p><b>COOL WHITE</b> NS-FD3528CW36-24</p>	<p><b>COOL WHITE</b> NS-FD3528CW36-24-UB</p>	<p><b>COOL WHITE</b> NS-FD3528CW72-24</p>
 <p><b>NEUTRAL WHITE</b> NS-FD3528NW18-24-4.8</p>	<p><b>NEUTRAL WHITE</b> NS-FD3528NW18-24</p>	<p><b>NEUTRAL WHITE</b> NS-FD3528NW18-24-B</p>	<p><b>NEUTRAL WHITE</b> NS-FD3528NW36-24</p>	<p><b>NEUTRAL WHITE</b> NS-FD3528NW36-24-UB</p>	<p><b>NEUTRAL WHITE</b> NS-FD3528NW72-24</p>
 <p><b>WARM WHITE</b> NS-FD3528WW18-24-4.8</p>	<p><b>WARM WHITE</b> NS-FD3528WW18-24</p>	<p><b>WARM WHITE</b> NS-FD3528WW18-24-B</p>	<p><b>WARM WHITE</b> NS-FD3528WW36-24</p>	<p><b>WARM WHITE</b> NS-FD3528WW36-24-UB</p>	<p><b>WARM WHITE</b> NS-FD3528WW72-24</p>

### Easy Installation in Anywhere

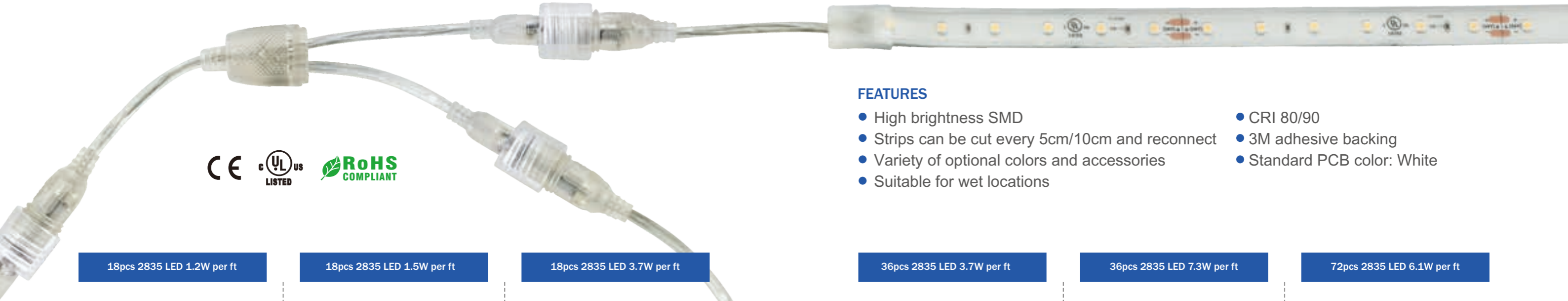


### Easy Installation in Anywhere



# LED STRIP

## IP67 WATERPROOF LED STRIP



### FEATURES

- High brightness SMD
- Strips can be cut every 5cm/10cm and reconnect
- Variety of optional colors and accessories
- Suitable for wet locations
- CRI 80/90
- 3M adhesive backing
- Standard PCB color: White

18pcs 2835 LED 1.2W per ft	18pcs 2835 LED 1.5W per ft	18pcs 2835 LED 3.7W per ft	36pcs 2835 LED 3.7W per ft	36pcs 2835 LED 7.3W per ft	72pcs 2835 LED 6.1W per ft
<ul style="list-style-type: none"> <li>• 10ft max. running length</li> <li>• 151LM/ft</li> <li>• PCB width 0.19inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• 151LM/ft</li> <li>• PCB width 0.31inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• 290LM/ft</li> <li>• PCB width 0.39inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 16.4ft max. running length</li> <li>• 318LM/ft</li> <li>• PCB width 0.31inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 10ft max. running length</li> <li>• 608LM/ft</li> <li>• PCB width 0.39inch</li> <li>• DC 24V input</li> </ul>	<ul style="list-style-type: none"> <li>• 10ft max. running length</li> <li>• 580LM/ft</li> <li>• PCB width 0.47inch</li> <li>• DC 24V input</li> </ul>
 <p><b>COOL WHITE</b> NS-FC3528CW18-24-4.8</p>	<p><b>COOL WHITE</b> NS-FC3528CW18-24</p>	<p><b>COOL WHITE</b> NS-FC3528CW18-24-B</p>	<p><b>COOL WHITE</b> NS-FC3528CW36-24</p>	<p><b>COOL WHITE</b> NS-FC3528CW36-24-UB</p>	<p><b>COOL WHITE</b> NS-FC3528CW72-24</p>
 <p><b>NEUTRAL WHITE</b> NS-FC3528NW18-24-4.8</p>	<p><b>NEUTRAL WHITE</b> NS-FC3528NW18-24</p>	<p><b>NEUTRAL WHITE</b> NS-FC3528NW18-24-B</p>	<p><b>NEUTRAL WHITE</b> NS-FC3528NW36-24</p>	<p><b>NEUTRAL WHITE</b> NS-FC3528NW36-24-UB</p>	<p><b>NEUTRAL WHITE</b> NS-FC3528NW72-24</p>
 <p><b>WARM WHITE</b> NS-FC3528WW18-24-4.8</p>	<p><b>WARM WHITE</b> NS-FC3528WW18-24</p>	<p><b>WARM WHITE</b> NS-FC3528WW18-24-B</p>	<p><b>WARM WHITE</b> NS-FC3528WW36-24</p>	<p><b>WARM WHITE</b> NS-FC3528WW36-24-UB</p>	<p><b>WARM WHITE</b> NS-FC3528WW72-24</p>

### Easy Installation in Anywhere



### Easy Installation in Anywhere



## Accessories for Waterproof Single Color LED Strip

### Power Feed

- Connects strips to power supply

## Single Color Connectors

### Interconnect Cable

- Connects 2 sections of the strips together

### 3-Way Connector

- Connects 3 sections of the strips together
- One input, two outputs
- Ideal for making "T" & "Y" connections

### 4-Way Connector

- Connects 4 sections of the strips together
- One input, three outputs

### End Cap

- Terminal for the strips

### Silicone

- Silicone glue for the end cap

### Clips

- Fix the strips on the surface



## Accessories for Waterproof RGB LED Strip

### RGB Power Supply Leads

- Connects strips to power supply



## RGB Connectors

### Interconnect Cable

- Connects 2 sections of the strips together



### RGB 3-Way Connector

- Connects 3 sections of the strips together
- One input, two outputs
- Ideal for making "T" & "Y" connections



### RGB 4-Way Connector

- Connects 4 sections of the strips together
- One input, three outputs



### Power Supply

- Outdoor Power Supply



# LED MODULE



## FEATURES

- PCB kinds: FR4,CEM,AL
- LED type:2835,4014,5050,3030,RGB,3535 high power
- Input:12v/24v/ 350mA 700mA,1000mA and etc
- Lumen output: 90LM/W to 200LM/W
- Connector: as customer request
- Typical Applications: Office lighting, Retail, corridor and shelf lighting
- We offer OEM & ODM service

