

创百年照明企业

We will be century lighting enterprise

HGLEDR

Lighting Heart World



2023  
CATALOG

HGLEDR

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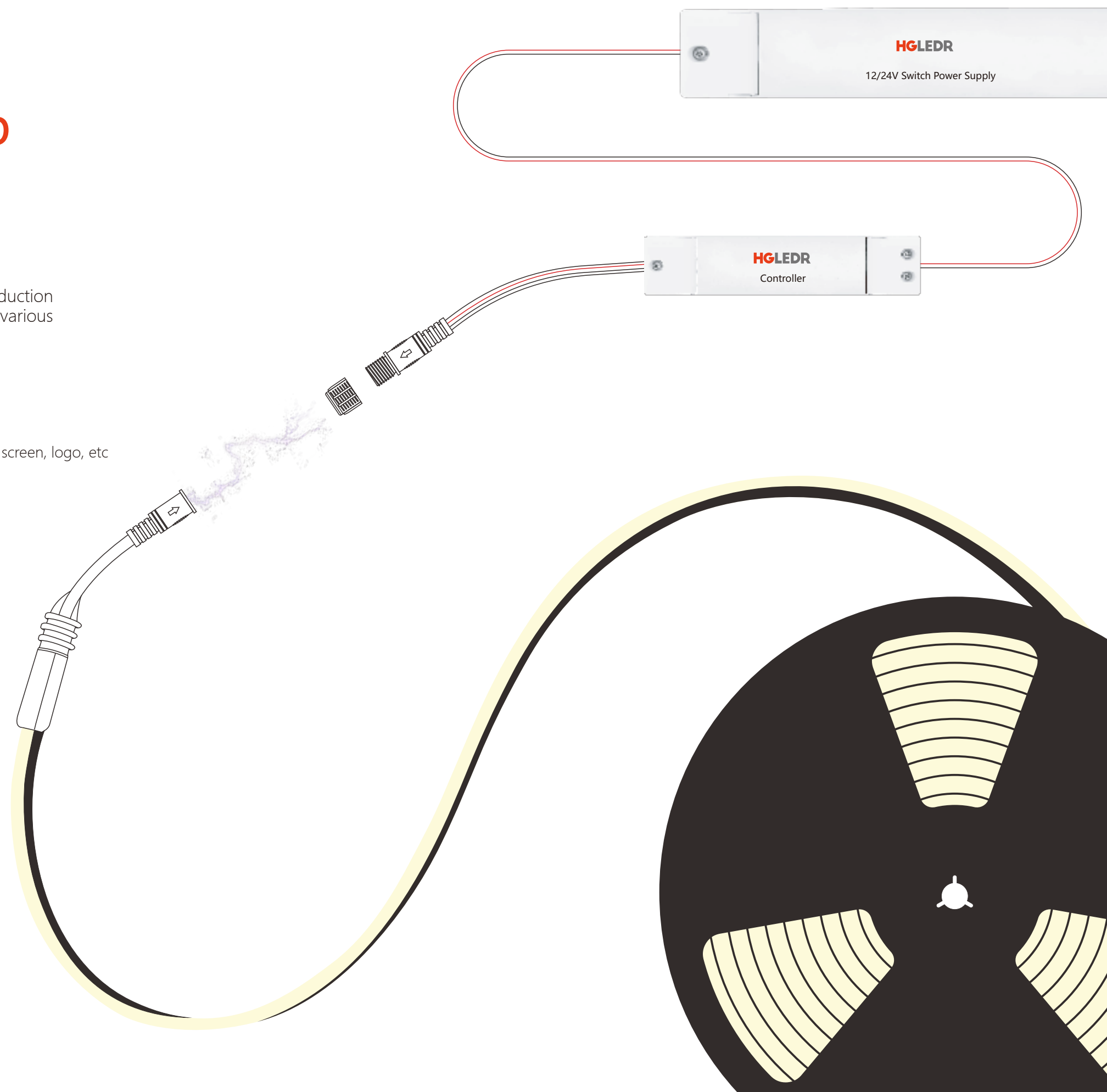


Shenzhen HG Lighting Co., Ltd

# LED Flexible Light Strip

## Flexible Customization

Based on a strong research and development, quality control, and production supply system, we can provide customers with flexible customization of various soft light strips.



**CRI**  
Optional (80/90/95)

**PRINT**  
Customizable black and white, certified silk screen, logo, etc

**COLOR**  
Customizable color temperature  
CCT

**LABLE**  
Customizable labels

**IP**  
Optional (IP20/IP65)

**PACKAGE**  
Customizable special packaging methods

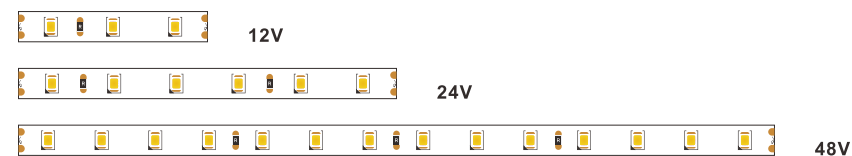
**LENGTH**  
Optional (5M/10M)

**WIRE**  
Options for outgoing line method: red black line, black and white line,  
DC plug, SM plug, waterproof plug

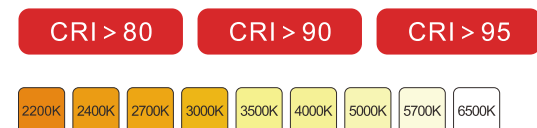
# LED Strip Structure

The LED Flexible light strip is composed of materials such as FPC, LED, SMD resistor, IC, waterproof silicon, and connecting terminals.

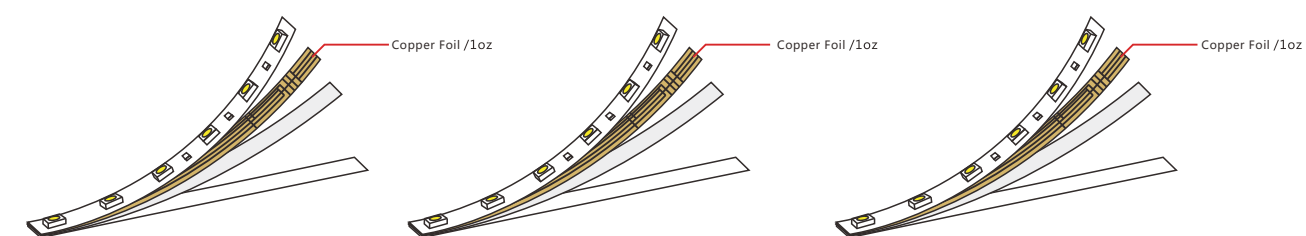
## LED Strip Type



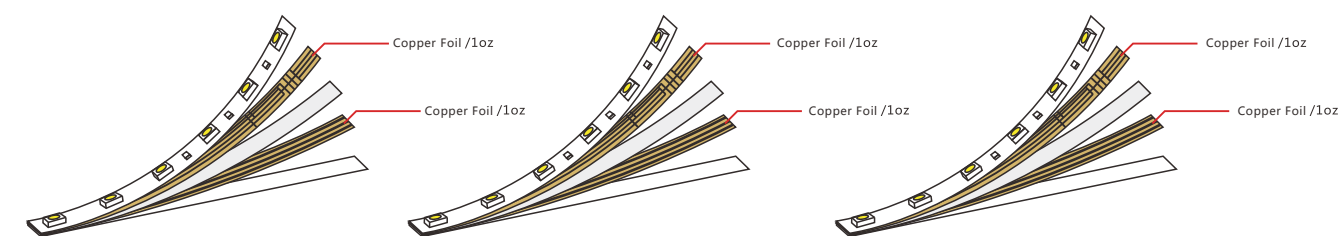
## LED Chips



## Single Layer Copper Flexible Circuit Board



## Double Layer Copper Flexible Circuit Board

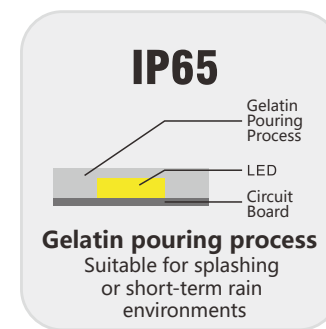


## 3M Double-sided Adhesive



# Protection Technology

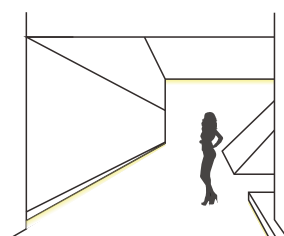
Adopting various protective processes such as gelatin pouring process, dripping glue and integrated extrusion of dripping glue, it can achieve to various protection levels such as IP20 and IP65.



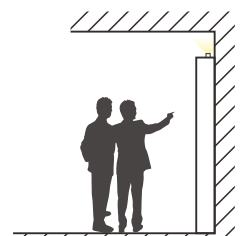
# Scenario Analysis

With the rapid development of the LED industry, high luminous efficiency linear lighting products have fully met the main lighting needs, and the light emitted is uniform and sets off the environment, enhancing visual senses. The high luminous efficiency of LED linear lighting also saves costs.

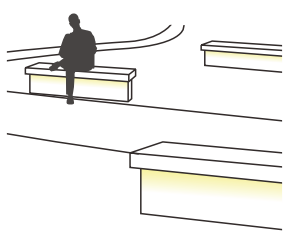
LED linear lighting can have a longer lifespan than other types of lamps, saving maintenance and replacement costs, and can have a lifespan of 5 to 10 years, significantly reducing energy costs



Exhibition Hall Lighting



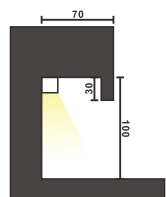
Painting Exhibition Lighting



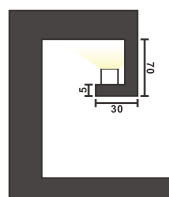
Bench Lighting



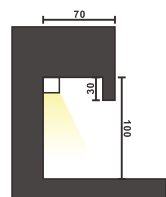
Staircase lighting



Fine reflection using spotless/seamless products



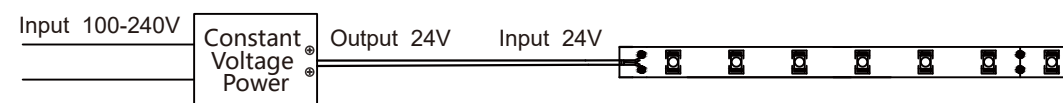
Hide the lights



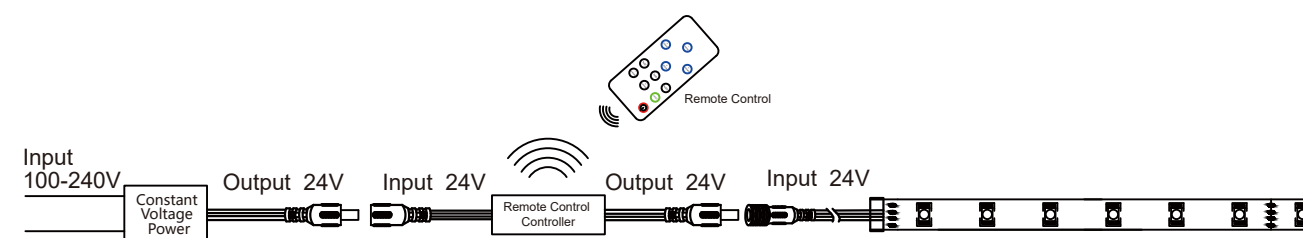
Used for surface structure lighting

# Wiring Application

## Single Color Wiring Diagram










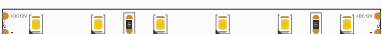











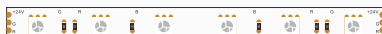




## RGB Wiring Diagram

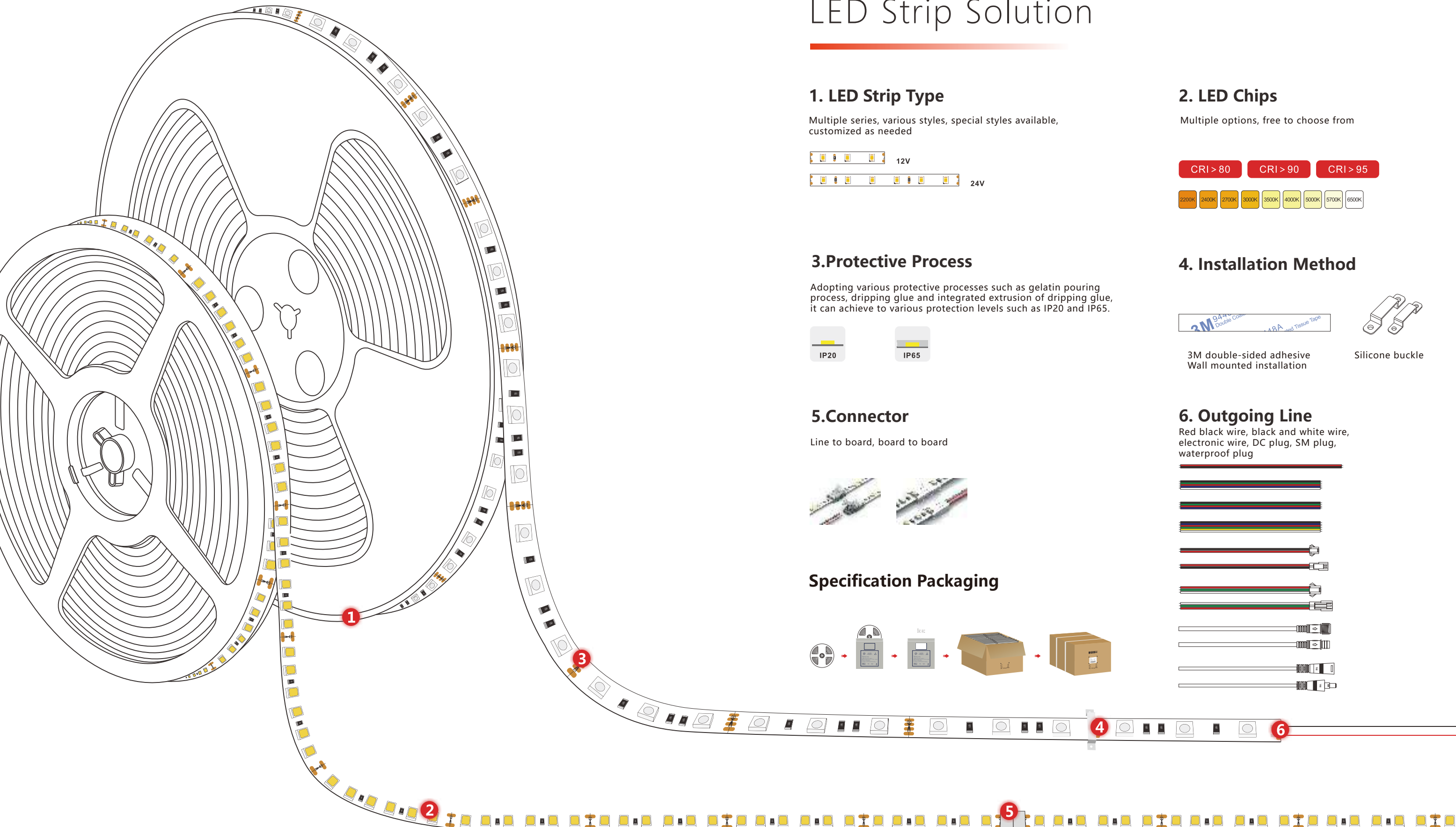


PRODUCT LIST

\*① Input voltage 12V/24V optional

Model	LED Chips	The number of chips (PCS)	Illustration	Minimum Cut Length (LED/Unit)	Plate Width (mm)	Color Temperature	Input Voltage (V) ①	Power (W/m)	Luminous Flux (Lm/m)	CRI	Protective Process
<b>Constant Voltage Monochromatic Light Series</b>											
SMD 2835-120D-D	SMD 2835	120		3 LEDs/50mm	8mm		DC12V	10W	900Lm	80	
SMD 2835-60D	SMD 2835	60		3 LEDs/100mm	8mm		DC12V	4.8W	520Lm	80	
SMD 2835-120D-D	SMD 2835	120		6 LEDs/50mm	8mm		DC24V	10W	900Lm	80	
SMD 2835-60D	SMD 2835	60		6 LEDs/100mm	8mm		DC24V	4.8W	520Lm	80	
<b>Constant Voltage Color Light Series</b>											
SMD 3838-120D-RGB	SMD 3838	120		3 LEDs/50mm	8mm		DC12V	10W	/	80	
SMD 5050-60D-RGB	SMD 5050	60		3 LEDs/100mm	10mm		DC12V	14W	/	80	
SMD 3838-120D-RGB	SMD 3838	120		6 LEDs/50mm	8mm		DC24V	10W	/	80	
SMD 5050-60D-RGB	SMD 5050	60		6 LEDs/100mm	10mm		DC24V	14W	/	80	

# LED Strip Solution



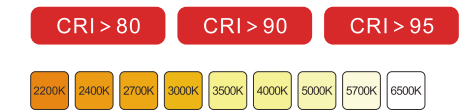
## 1. LED Strip Type

Multiple series, various styles, special styles available, customized as needed



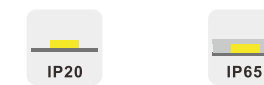
## 2. LED Chips

Multiple options, free to choose from



## 3. Protective Process

Adopting various protective processes such as gelatin pouring process, dripping glue and integrated extrusion of dripping glue, it can achieve to various protection levels such as IP20 and IP65.



## 4. Installation Method



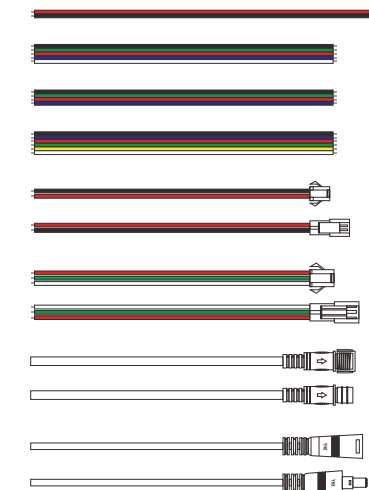
## 5. Connector

Line to board, board to board



## 6. Outgoing Line

Red black wire, black and white wire, electronic wire, DC plug, SM plug, waterproof plug



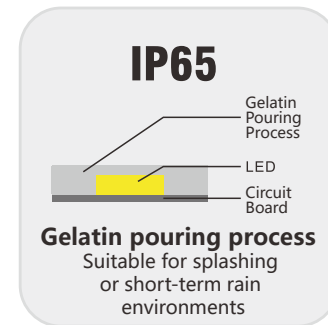
## Specification Packaging



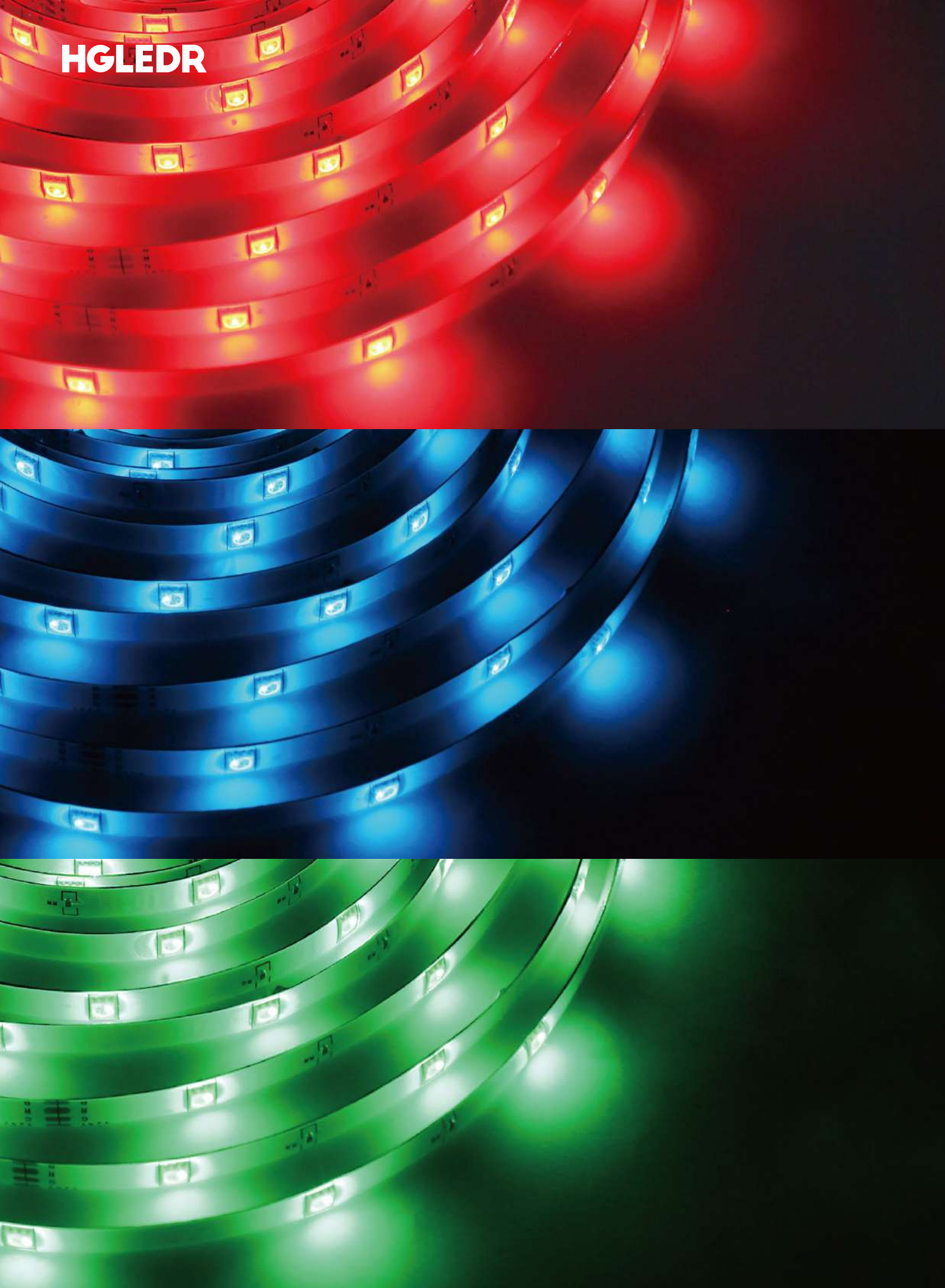


# Conventional Waterproof Series

High transparency, excellent flexibility, simple and fashionable foreign design, exquisite and unique; Cuttable and easy to install.

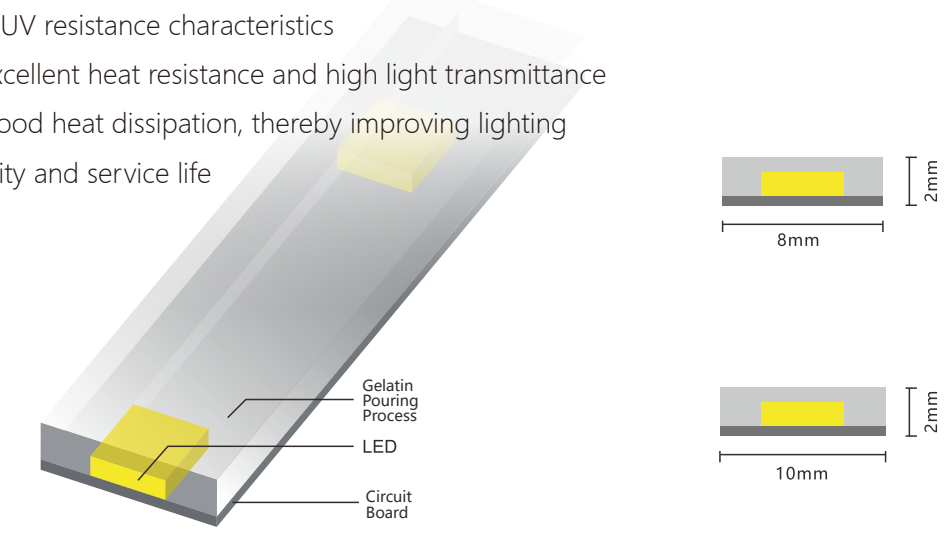






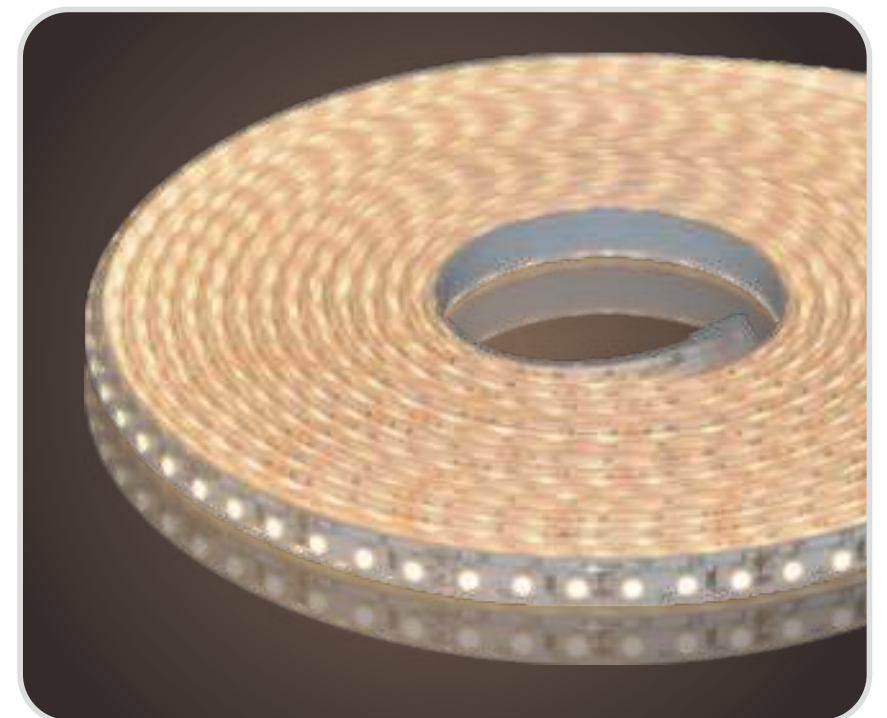
# Gelatin pouring process IP65

- ★ IP65 waterproof grade
- ★ Has excellent yellowing resistance, weather resistance, and UV resistance characteristics
- ★ Excellent heat resistance and high light transmittance
- ★ Good heat dissipation, thereby improving lighting quality and service life



### Gelatin Pouring Process

Suitable for splashing or short-term rain environments  
For 8/10/12mm FPC board width







**SMD 2835**

## Constant Voltage Monochromatic Light Series

Adopting a 12/24V low voltage design for human safety, the FPC double-sided board is internally made of 2 oz thick copper foil, effectively preventing voltage drop,

And ensure the heat dissipation effect of LED chips, effectively extending their service life. It can be widely used for various indoor space lighting.

# SMD 2835-60D

## Constant Voltage Monochromatic Light Series

- LED with 2835 SMD beads, passed through LM-80
- FPC adopts double-sided copper double-sided film covering, with a copper thickness of 2 ounces
- Good color consistency, color tolerance within 3 steps
- DC12V/24V available for selection
- Dimmable, supporting PMW, DALI, and DMA,
- Warranty of three or five years

Specification: **5M / roll**

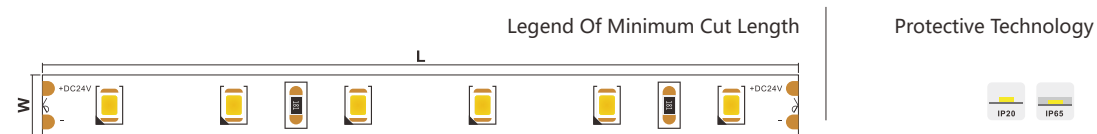


# SMD 2835-120D-D

## Constant Voltage Monochromatic Light Series

- LED with 2835 SMD beads, passed through LM-80
- FPC adopts double-sided copper double-sided film covering, with a copper thickness of 2 ounces
- Good color consistency, color tolerance within 3 steps
- DC12V/24V available for selection
- Dimmable, supporting PMW, DALI, and DMA,
- Warranty of three or five years

Specification: **5M / roll**



### PARAMETER

LED Chips	Input Voltage	LED QTY	Power	CRI / CCT	Lumens	Minimum Cut Length(L)	Board Width(W)
SMD 2835	DC24V	60PCS/M	4.8W	80/3000K	520Lm/M	6 LEDs/100mm	8mm

### PARAMETER

LED Chips	Input Voltage	LED QTY	Power	CRI / CCT	Lumens	Minimum Cut Length(L)	Board Width(W)
SMD 2835	DC24V	120PCS/M	10W	80/3000K	900Lm/M	6LEDS/50mm	8mm

### ACCESSORIES



Silicone buckle

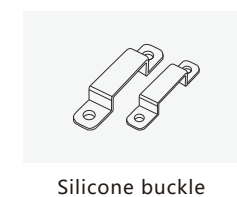
Accessory 1

Accessory 2

Accessory 3

Accessory 4

### ACCESSORIES



Silicone buckle

# SMD 2835-120D

## Constant Voltage Monochromatic Light Series

- LED with 2835 SMD beads, passed through LM-80
- FPC adopts double-sided copper double-sided film covering, with a copper thickness of 2 ounces
- Good color consistency, color tolerance within 3 steps
- DC12V/24V available for selection
- Dimmable, supporting PMW, DALI, and DMA,
- Warranty of three or five years

Specification: **5M / roll**



# SMD 5050-60D

## Constant Voltage Monochromatic Light Series

- LED with 5050 SMD beads, passed through LM-80
- FPC adopts double-sided copper double-sided film covering, with a copper thickness of 2 ounces
- Good color consistency, color tolerance within 3 steps
- DC12V/24V available for selection
- Dimmable, supporting PMW, DALI, and DMA,
- Warranty of three or five years

Specification: **5M / roll**



Legend Of Minimum Cut Length



Protective Technology



### PARAMETER

LED Chips	Input Voltage	LED QTY	Power	CRI / CCT	Lumens	Minimum Cut Length(L)	Board Width(W)
SMD 2835	DC24V	120PCS/M	7.2W	80/3000K	800Lm/M	6 LEDs/50mm	5mm
SMD 2835	DC24V	120PCS/M	9.6W	80/3000K	1050Lm/M	6 LEDs/50mm	6mm
SMD 2835	DC24V	120PCS/M	12W	80/3000K	1320Lm/M	6 LEDs/50mm	8mm
SMD 2835	DC24V	120PCS/M	12W	80/3000K	1320Lm/M	6 LEDs/50mm	10mm

### ACCESSORIES



Silicone buckle

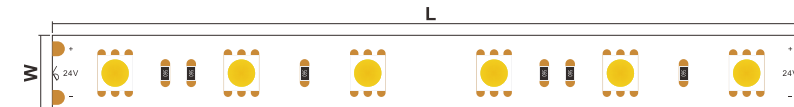
Accessory 1

Accessory 2

Accessory 3

Accessory 4

Legend Of Minimum Cut Length



Protective Technology



### PARAMETER

LED Chips	Input Voltage	LED QTY	Power	CRI / CCT	Lumens	Minimum Cut Length(L)	Board Width(W)
SMD 5050	DC24V	60PCS/M	14.4W	80/3000K	1000Lm/M	6 LEDs/100mm	10mm

### ACCESSORIES



Silicone buckle

Accessory 1

Accessory 2

Accessory 3

Accessory 4



SMD 5050

# Constant Voltage Color Light Series

Adopting a 12/24V low voltage design for human safety, the FPC double-sided board is internally made of 2 oz thick copper foil, effectively preventing voltage drop, And ensure the heat dissipation effect of LED chips, effectively extending their service life. It can be widely used for various indoor space lighting.





# HGLEDR



LED Flexible Light Strip

Adapter Cable  
(With remote control controller)

Remote control

Electric Outlet

Customizable adapter plugs suitable for customer use in countries and regions.

## SMD 5050-60D-RGB

### Constant Voltage Color Light Series

- LED with 5050 SMD beads, passed through LM-80
- FPC adopts double-sided copper double-sided film covering, with a copper thickness of 2 ounces
- DC12V/24V available for selection
- Dimmable, supporting DALI,
- Warranty of three years

Specification: **5M / roll**



### PARAMETER

LED Chips	Input Voltage	LED QTY	Power	CRI / CCT	Lumens	Minimum Cut Length(L)	Board Width(W)
SMD 5050	DC24V	60PCS/M	14W	80/RGB	/	6 LEDs/100mm	10mm

### ACCESSORIES



Silicone buckle

Accessory 1

Accessory 2

Accessory 3

Accessory 4

# OSRAM

## OSRAM Power Series

- 24V constant voltage output
- Safe Extra Low Voltage (SELV)
- Input voltage 220-240V
- Up to 86% efficiency
- Power factor > 0.95
- overload protection
- Over temperature protection
- Short circuit protection
- Wide working environment temperature Ta-20-+50 °C
- 30,000 hours @ T=75 °C
- 3-years warranty



### PARAMETER

Model	Output Voltage	Power	Current Range	Voltage Accuracy	Efficiency	Dimensions
ELEMENT 30/220-240/24 G2	DC24V	30W	0-1.25A	±3%	88%	145X40X26.5mm
ELEMENT 60/220-240/24 G2	DC24V	60W	0-2.5A	±3%	88%	200X40X31mm
ELEMENT 120/220-240/24 G2	DC24V	120W	0-5.0A	±3%	88%	260X40X31mm
ELEMENT 180/220-240/24 G2	DC24V	180W	0-7.5A	±3%	88%	300X40X31mm

# PHILIPS

## PHILIPS Power Series

- 24V constant voltage output
- Safe Extra Low Voltage (SELV)
- Input voltage 220-240V
- Up to 86% efficiency
- Power factor > 0.95
- overload protection
- Over temperature protection
- Short circuit protection
- Wide working environment temperature Ta-20-+50 °C
- 30,000 hours @ T=75 °C
- 3-years warranty



### PARAMETER

Model	Output Voltage	Power	Current Range	Voltage Accuracy	Efficiency	Dimensions
Economic LED Transformer 30W 24VDC	DC24V	30W	0-1.25A	±3%	90%	150X40X28mm
Economic LED Transformer 60W 24VDC	DC24V	60W	0-2.5A	±3%	90%	211X40X32mm
Economic LED Transformer 120W 24VDC	DC24V	120W	0-5.0A	±3%	95%	280X40X34mm
Economic LED Transformer 180W 24VDC	DC24V	180W	0-7.5A	±3%	95%	300X50X35mm

# OSRAM

## OSRAM Waterproof Power Series

- 24V constant voltage output
- Safe Extra Low Voltage (SELV)
- Input voltage 220-240V
- Up to 86% efficiency
- Power factor > 0.95
- overload protection
- Over temperature protection
- Short circuit protection
- Wide working environment temperature Ta-20-+50 °C
- 30,000 hours @ T=75 °C
- 3-years warranty



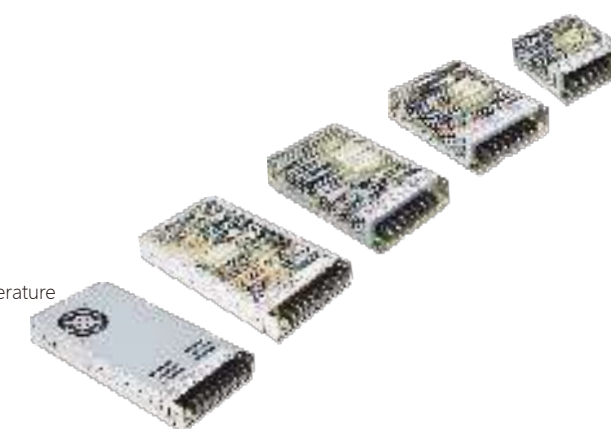
### PARAMETER

Model	Output Voltage	Power	Current Range	Voltage Accuracy	Efficiency	Dimensions
OPTOTRONIC OT FIT 80/220-240/24 P	DC24V	80W	0-3.3A	±3%	88%	170X53X31.5mm
OPTOTRONIC OT FIT 150/220-240/24 P	DC24V	150W	0-6.25A	±3%	88%	240X53X31.5/mm
OPTOTRONIC OT FIT 200/220-240/24 P	DC24V	200W	0-8.3A	±3%	88%	215X53X31.5/mm
OPTOTRONIC OT FIT 300/220-240/24 P	DC24V	300W	0-12.5A	±3%	88%	260X68X39.6mm

# MW

## MEAN WELL Power Series

- 24V constant voltage output
- Safe Extra Low Voltage (SELV)
- Input voltage 220-240V
- Up to 86% efficiency
- Power factor > 0.95
- overload protection
- Over temperature protection
- Short circuit protection
- Wide working environment temperature Ta-20-+50 °C
- 30,000 hours @ T=75 °C
- 3-years warranty



### PARAMETER

Model	Output Voltage	Power	Current Range	Voltage Accuracy	Efficiency	Dimensions
LRS-50-SPEC-CN	DC24V	50W	0-2A	±3%	90%	92.5X82X30mm
LRS-100-SPEC-CN	DC24V	100W	0-4.2A	±3%	90%	122.5X97X30mm
LRS-150F-SPEC-CN	DC24V	150W	0-6.25A	±3%	90%	152.5X97X30mm
LRS-200-SPEC-CN	DC24V	200W	0-8.3A	±3%	90%	215X115X30mm
LRS-350-SPEC-CN	DC24V	350W	0-1.46A	±3%	90%	215X115X30mm