PRO Series | Specification

# D560RGB
## 24V-10mm

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UL E498657   CE   RoHS   ISO 9001
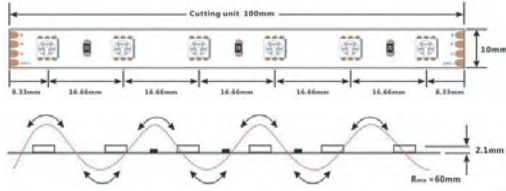
## 【General description】

· RGB colorful strip
· 5050 LED with broader luminous surface
· Widely adaptable to all types of controllers,Self-encapsulated design
· High quality FPC, high thermal 3M adhesive
· With life span over 60000H
· Ta: -25~40℃；Tc：75℃（max）

## 【Dimension】

| | |
|---|---|
| Input voltage：DC24V | Max.length：5000mm |
| CRI：＞0 | Cutting unit：6leds/100mm |
| Max.power: 14.4W(1m) | LED pitch：16.66mm |
| Power range: 11.5 ～14.4W(1m) | Min. bend diameter：Φ60mm |
| Rated current：0.52A(1m) /2.22A(5m) | Mounting：3M tape |
| Typical Power：12.5W(1m) /53.3W(5m) | Copper foil: 2oz |
| tape IP：IP20/IP65/IP67 | |
| On-off times: 10000（test times） | |
| Warranty：5years | |

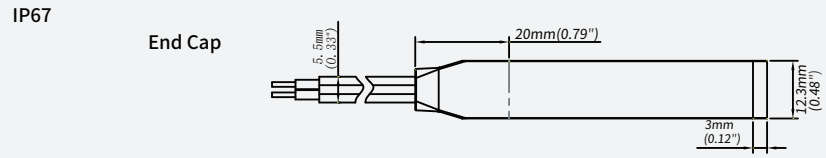· Photometric of 1M strip

·AAI Figurestrip
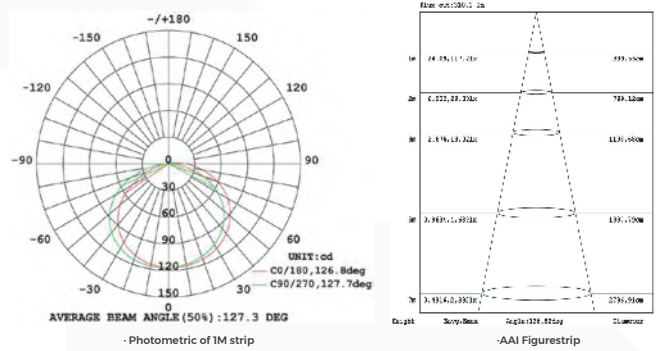
## 【Photo-electric Parameters】

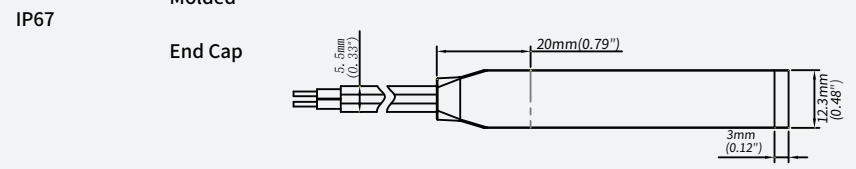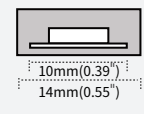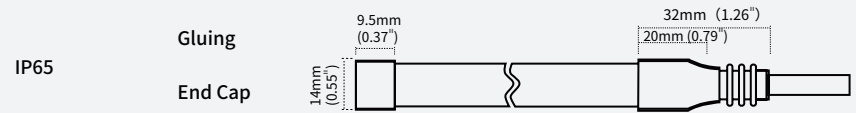| CRI | Color | Wavelength | Lumen(lm) | lm/W | Energy efficiency class |
|---|---|---|---|---|---|
| 0 | Red | 625 | 108 | / | / |
| 0 | Green | 525 | 279 | / | / |
| 0 | Blue | 470 | 55 | / | / |
| 0 | RGB | / | 416 | / | / |

1.The tolerance of output data can be vary up to 15%.

2.the output data tested according to IES TM-30-15.

3.the output data is based on IP20/1merter，data of 5m in only for reference.

4.IP protection process leads changes to size, CCT and luminous flux.

# 【IP process information】

**ET**

IP65 — Gluing End Cap

9.5mm (0.37")
32mm (1.26")
20mm (0.79")
14mm (0.55")

IP67 — Molded End Cap

3.7mm (0.15")
5.1mm (0.2")
5.1mm (0.2")
5.5mm (0.33")
20mm(0.79")
12.3mm (0.48")
3mm (0.12")

10mm(0.39")
12mm(0.47")

**EF**

IP65 — Gluing End Cap

9.5mm (0.37")
32mm (1.26")
20mm (0.79")
14mm (0.55")

IP67 — Molded End Cap

3.7mm (0.15")
5.1mm (0.2")
5.1mm (0.2")
5.5mm (0.33")
20mm(0.79")
12.3mm (0.48")
3mm (0.12")

10mm(0.39")
14mm(0.55")
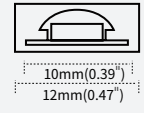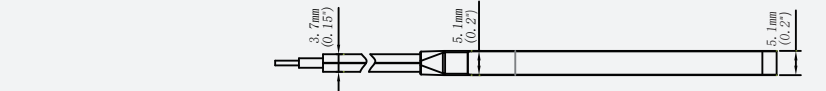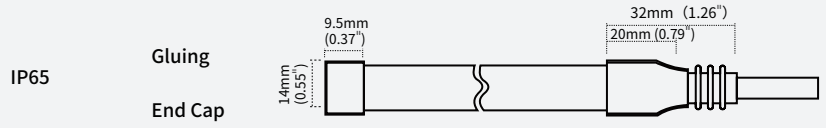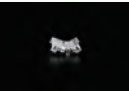
## 【IP Process Parameters】

| IP Process | Picture | Picture description | Size | optional CCT/color for finished product | lumen output rate |
|---|---|---|---|---|---|
| NO |  NO/IP20 | No proof | 10mm*1.5mm | RGB | 100% |
| NA |  NANO/IP65 | Nano-proof | 10mm*1.6mm | RGB | 98% |
| ET |  ET/IP67 | Extrusion tube | 12mm*4.8mm | RGB | 88% |
| EF |  EF/IP68 | Extrusion filling | 12mm*5mm | RGB | 86% |

## 【Accessories Information】

| Name | Picture | Code | Description |
|---|---|---|---|
| Connector for wire and FPC |  | 94-42-621020001 | 10mm width, 4PIN connector of wire and FPC, suitable for white color strip, NO/NA, 4PIN wire18- 22AWG |
| Connector for FPC and FPC |  | 94-42-621020002 | 10mm width, 4PIN connector of FPC and FPC, suitable for white color strip,NO/NA |
| Fixed Clip |  | 94-02-00-0003 | Silicone clip, screw: PA 3*8mm, suitable for 10mm FPC,EF/ET strip |
| Silicone Plug Kit |  | 94-02-00-0046 | Silicone plug kit, suitable for 10mm board width, ET/EF series silicone extrusion light strip |
| Silicone stopper kit |  | 94-02-00-0047 | Silicone tail plug kit, suitable for 10mm board width, ET/EF series silicone extrusion light strip |
| Mounting groove |  | 94-02-00-0025 | Transparent PVC mounting groove,suitable for 10mm FPC,silicone extruded EF/ET strip |
| Stopper glue |  | 94-16-03010001 | Silicone gel,suitable for ET/EF/EG waterproof LED strip |
| RGB RF Controller |  | 402-01-000000-00003 | Model: CR3-GBA Input voltage：12-48VDC Maximum loaded current：6A*3CH Max 18A Maximum loaded power: 216W/432W@12V/24V 648W/864W@36V/48V |
| RGB RF Remote |  | 402-02-000000-00003 | Model: CK4-GBA Working voltage：3VDC Remote Distance：30m Output Singal: RF2.4GHz |

## 【Packing】

Colors brand package



General customized package
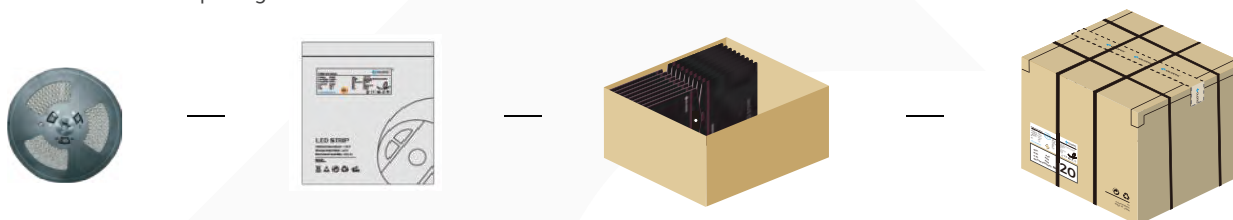


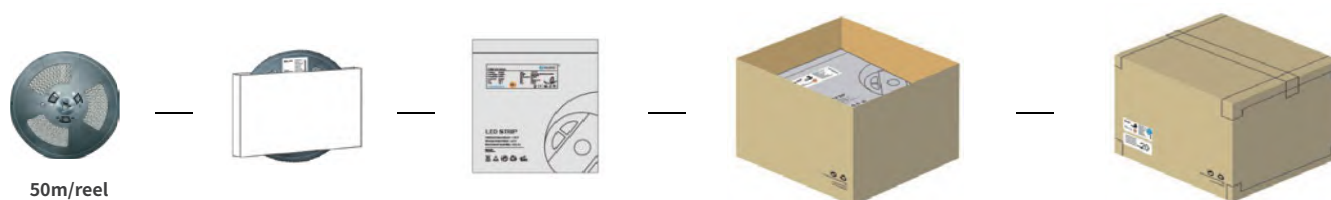| IP Process | Product size(mm) | Product quantity (m/reel) | Product quantity (m/case) | Product net weight(kg) | Net weight per box(kg) | Gross weight(kg) | Package size (cm) |
|---|---|---|---|---|---|---|---|
| NO | 5000*10*2.1 | 5 | 250 | 0.15 | 7.5 | 8.625 | 41*41*26 |
| NA | 5000*10*2.1 | 5 | 250 | 0.153 | 7.65 | 8.798 | 41*41*26 |
| ET | 5000*12*4.8 | 5 | 200 | 0.5 | 20 | 23 | 41*41*26 |
| EF | 5000*12*5.0 | 5 | 200 | 0.567 | 22.68 | 26.082 | 41*41*26 |

Remark：data with 10% tolerance

## · Engineering packaging of ET(IP67)/EF(IP67)

(free-soldering end caps with 40 cover per box could be ordered separately if needed)



**50m/reel**

## · Engineering packaging of NO(IP20)/NA(IP65).



**50m/reel**

| IP Process | Product size(mm) | Product quantity (m/reel) | Product quantity (m/case) | Product net weight(kg) | Net weight per box(kg) | Gross weight(kg) | Package size (cm) |
|---|---|---|---|---|---|---|---|
| NO | 5000*10*2.1 | 50 | 500 | 1.5 | 15 | 17.25 | 41*41*26 |
| NA | 5000*10*2.1 | 50 | 500 | 1.53 | 15.3 | 17.595 | 41*41*26 |
| ET | 5000*12*4.8 | 50 | 100 | 5.1 | 10.2 | 11.73 | 25.5*25.5*26 |
| EF | 5000*12*5.0 | 50 | 100 | 5.72 | 11.44 | 13.156 | 25.5*25.5*26 |

Remark data with 10% tolerance

## 【Precautions】

· Please drive the led strip with 24VDC isolated power, and the ripple of the constant voltage source should be less than 5%.

· Please do not bend the strip into an arc with a diameter less than 60mm to ensure the longevity and reliability.

· Do not fold it in case any damage of LED beads.

· Do not pull the power wire hard to ensure the longevity.Any Crash may damage the LED light is prohibited.

· Please make sure the wire is connected to the anode and cathode correctly. The power output should be consistent with the voltage of the strip to avoid damage.

· LED lights should be stored in dry, sealed environment. Please only unpack it before usage. Ambient temperature: -25℃~40℃.Storage temperature: 0℃~60℃.Please use the strips without waterproof within indoor environment with humidity less than 70%.

· Please be careful during operation. Do not touch the AC power supply in case of electric shock.

· Please leave at least 20% power for the power supply during using to ensure there is enough power supply to drive the product.

· Do not use any acid or alkaline adhesives to fix the product (e.g.: glass cement).

· Do not scratch the product when IP processof the product is NA. Ultraviolet rays will damage the nano-layers on the product and seriously affect the life of the product.