

Specification

D8120-12V-8mm

(9.6W)



▼ General description

- Self-encapsulated design offers eight optional 1900-6000K white lights
- High quality PFC, high thermal 3M adhesive
- With life span over 60000H
- Ta: -25~40°C; Tc: 75°C (max)



▼ Dimension

※Max.length: 5000mm

Cutting unit: 3leds/25mm

LED pitch: 8.33mm

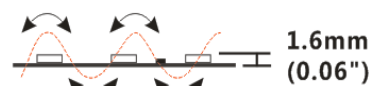
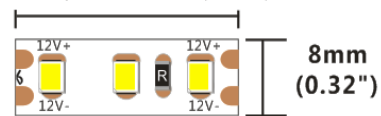
Min. bend diameter: Φ60mm

Mounting: 3M tape

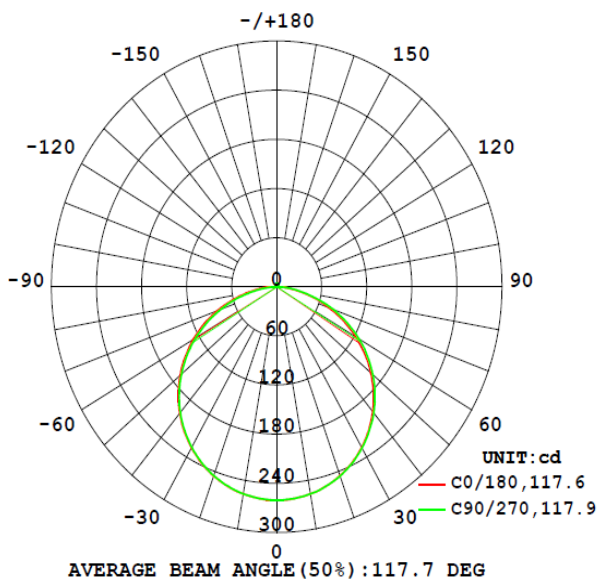
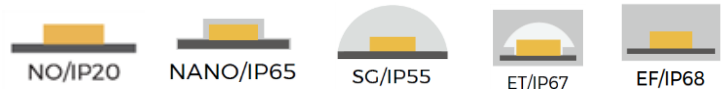
IP: IP20/IP55/IP65/IP67/IP68

※Warranty: 5years

Cutting Unit :25mm(0.98")



Rmin = 60mm(2.36")



Photometric of 1M strip

| Height | Eavg, Emax | Angle: 117.57deg | Diameter |
|--------|-----------------|------------------|-----------|
| 1m | 69.00, 260.51x | | 330.04cm |
| 2m | 17.25, 65.111x | | 660.07cm |
| 3m | 7.667, 28.941x | | 990.11cm |
| 4m | 4.313, 16.281x | | 1320.14cm |
| 5m | 2.760, 10.421x | | 1650.18cm |
| 6m | 1.917, 7.2351x | | 1980.22cm |
| 7m | 1.408, 5.3161x | | 2310.25cm |
| 8m | 1.078, 4.0701x | | 2640.29cm |
| 9m | 0.8519, 3.2161x | | 2970.33cm |
| 10m | 0.6900, 2.6051x | | 3300.36cm |

AAI Figure

※Max.length data is based on 10% voltage drop

※Warranty is based on indoor use

▼ Electronic & output data

Input voltage: DC12V

Rated current: 0.7A(1m) /2.8A(5m)

Typical Power: 8.4W(1m) /33.6W(5m)

CRI: >90/95/98

Max.power: 9.6W

On-off times: 10000 (test times)

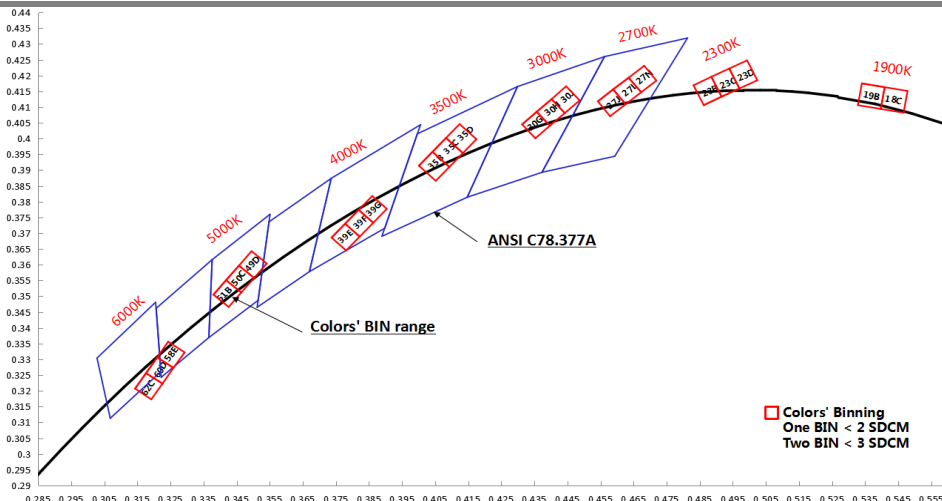
Power range: 7.5 ~ 9.6W

Copper foil: 3oz





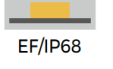
| CRI | Color | CCT | Lumen(lm) | lm/W | Energy efficiency class |
|-------|-------|-----------|-----------|------|-------------------------|
| Ra>90 | GW | 1900K | 630 | 75 | A |
| Ra>90 | LW | 2300K | 706 | 84 | A |
| Ra>90 | SW | 2700K | 748 | 89 | A |
| Ra>90 | WW | 3000K | 790 | 94 | A+ |
| Ra>90 | PW | 3500K | 798 | 95 | A+ |
| Ra>90 | NW | 4000K | 823 | 98 | A+ |
| Ra>90 | DW | 5000K | 823 | 98 | A+ |
| Ra>90 | W | 6000K | 790 | 94 | A+ |
| Ra>95 | SW | 2700K | 580 | 69 | |
| Ra>95 | WW | 3000K | 638 | 76 | A |
| Ra>95 | PW | 3500K | 714 | 85 | A |
| Ra>95 | NW | 4000K | 714 | 85 | A |
| Ra>98 | SW | 2700K | 529 | 63 | A |
| Ra>98 | WW | 3000K | 563 | 67 | A |
| Ra>98 | NW | 4000K | 596 | 71 | A |
| 0 | G | 525~530nm | / | / | / |
| 0 | B | 465~470nm | / | / | / |

- 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









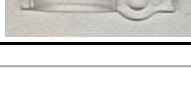
▼ BIN






▼ IP Process

| IP Process | Picture | description | Size | optional CCT/color for finished product | lumen output rate |
|------------|--|-------------------|------------|---|-------------------|
| NO |  NO/IP20 | No proof | 8mm*1.5mm | 1900K/2300K/2700K/3000K/ 3500K/4000K/5000K/6000K/G/B | 100% |
| NA |  NANO/IP65 | Nano-proof | 8mm*1.5mm | 1900K/2300K/2700K/3000K/ 3500K/4000K/5000K/6000K/G/B | 98% |
| SG |  SG/IP55 | Gel coating | 8mm*2.7mm | 2300K/3000K/3500K/4000K/ 6000K/10000K/15000K/G/B | 90% |
| ET |  ET/IP67 | Extrusion tube | 10mm*4.8mm | 1900K/2300K/2700K/3000K/ 3500K/4000K/5000K/6000K/G/B | 88% |
| EF |  EF/IP68 | Extrusion filling | 10mm*5mm | 2300K/2900K/3400K/3850K/ 5800K/8750K/15000K/G/B | 86% |

▼ Accessories Information

| Name | Picture | Code | description |
|----------------------------|---|-----------------|--|
| Connector for wire and FPC |  | 94-42-620800001 | 8mm width, 2PIN connector of wire and FPC,suitable for white color strip, NO/NA,2PIN wire18- 22AWG |
| Connector for FPC and FPC |  | 94-42-620800002 | 8mm width, 2PIN connector of FPC and FPC,suitable for white color strip,NO/NA |
| Connector for wire and FPC |  | 94-03-00-0044 | 8mm width, 2PIN connector of wire and FPC,suitable for white color and gel coating strip,SG,2PIN wire18- 22AWG |
| Connector for FPC and FPC |  | 94-03-00-0048 | 8mm width, 2PIN connector of FPC and FPC,suitable for white color and gel coating strip,SG |
| Slim connector |  | 94-03-00-0065 | TSC-08-2, suitable for 8mm fpc to fpc connection , IP20, 2pin, 10pcs per bag |
| FPC with wire |  | 94-03-00-0066 | wire connection when using together with TSC-08-2,IP20,2PIN, 10PCS per bag |
| Fixed Clip |  | 94-02-00-0002 | Silicone clip, screw: PA 3*8mm, suitable for 8mm FPC,EH/EF/ET strip |
| Fixed Clip |  | 94-02-00-0017 | Fixed clip, transparent, 3*8mm self-tapping screws, suitable for 8mm FPC,NO/NA LED strip |
| Fixed Clip |  | 94-02-00-0015 | Fixed clip, transparent, 3*8mm self-tapping screws,suitable for 8mm FPC,SG LED strip |

| | | | |
|----------------------|---|----------------|--|
| Silicone end cap set |  | 94-02-00-0021 | including end cap and plug,suitable for 8mm FPC,EH/ET/EF silicone extrusion strip |
| Mounting groove |  | 94-02-00-0024 | Transparent PVC mounting groove,suitable for 8mm FPC,silicone extruded EF/ET strip |
| Stopper glue |  | 94-16-03010001 | Silicone gel,suitable for ST/ET/EH/EF/SF waterproof LED strip |

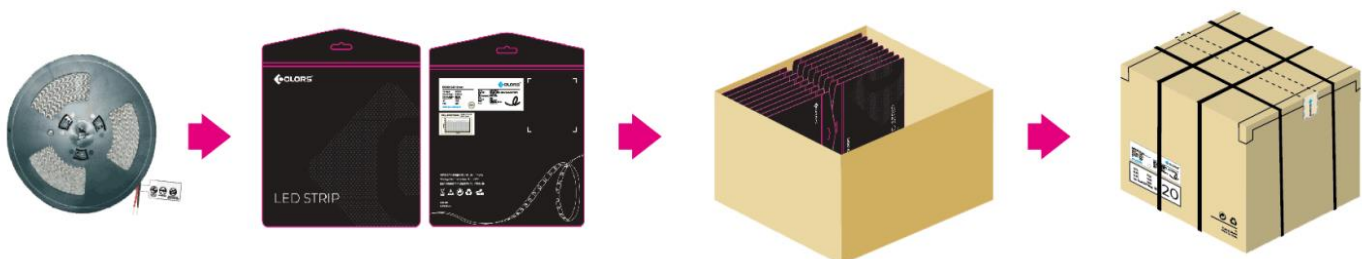
▼ Order Code Formats

| 1: Category | | 2: LED | | 3: LED/m | | 4: Voltage | | 5:FPC Width | | 6: IP Process | | 7: CRI | | 8: CCT | |
|------------------|------------|-----------------|---------|---------------|---------------------|-----------------|---------|---------------|-----------|----------------|-------------------|------------------|------|--------|-------|
| D | - | 8 | 2835 | 120 | 120 LED | 12 | 12V | 08 | 8mm | NO | NO | 9 | > 90 | GW | 1900K |
| | | | | | | | | | | NA | NANO | H | > 95 | LW | 2300K |
| | | | | | | | | | | SG | Gel coating | F | > 98 | SW | 2700K |
| | | | | | | | | | | ET | Extrusion tube | 0 | 0 | WW | 3000K |
| | | | | | | | | | | EF | Extrusion filling | | | PW | 3500K |
| | | | | | | | | | | | | | | NW | 4000K |
| | | | | | | | | | | | | | | DW | 5000K |
| | | | | | | | | | | | | | | W | 6000K |
| | | | | | | | | | | | | | | G | Green |
| | | | | | | | | | | | | | | B | Blue |
| D | - | 8 | | 120 | | 12 | | 08 | | NO | | 9 | | GW | |
| 9: Silk Printing | | 10: Entry cable | | 11: Wire type | | 12: Wire length | | 13: Tape type | | 14: Label Type | | 15: Strip Length | | | |
| N | Neutral | S | Single | A | red and black cable | 012 | 12cm | W | White 3M | C | COLORS | 0500 | 5m | | |
| C | COLORS | D | Doubl | B | SM-male wire | 020 | 20cm | Y | Yellow 3M | S | Customized | 5000 | 50m | | |
| S | Customized | X | Nothing | C | SM-female wire | 050 | 50cm | R | Red tape | | | 4000 | 40m | | |
| | | | | X | Nothing | 100 | 100cm | X | Nothing | | | | | | |
| | | | | | | 0 | Nothing | | | | | | | | |
| N | | S | | A | | 012 | | W | | C | | 0500 | | | |

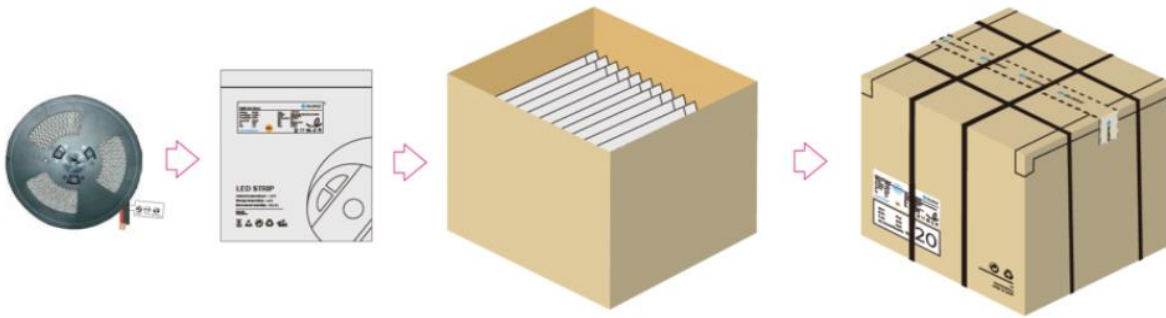
D81201208NO-9GWNSA012WC0500

▼ Packing

Colors brand package



General customized package

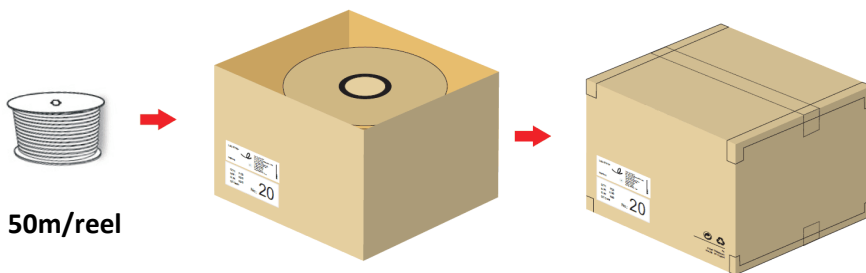


| IP Process | Product size(mm) | Product quantity (m/reel) | Product quantity (m/case) | Product net weight(kg) | Net weight per box (kg) | Gross weight (kg) | Package size (cm) |
|------------|------------------|---------------------------|---------------------------|------------------------|-------------------------|-------------------|-------------------|
| NO | 5000*8*1.5 | 5 | 300 | 0.115 | 6.9 | 7.935 | 41*41*26 |
| NA | 5000*8*1.6 | 5 | 300 | 0.118 | 7.04 | 8.142 | 41*41*26 |
| SG | 5000*8*2.8 | 5 | 300 | 0.203 | 12.18 | 14.007 | 41*41*26 |
| ET | 5000*10*4.8 | 5 | 200 | 0.44 | 17.6 | 20.24 | 41*41*26 |
| EF | 5000*10*5 | 5 | 200 | 0.486 | 19.44 | 22.36 | 41*41*26 |

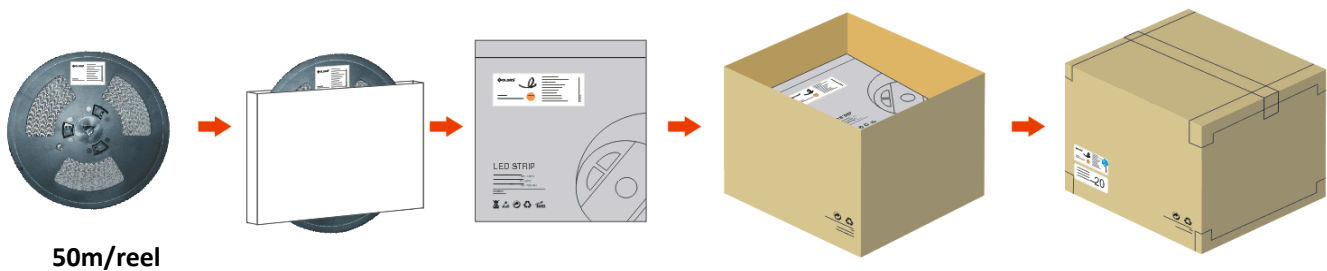
Remark: data with 10% tolerance

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

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



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



| 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 | 50000*8*1.5 | 50 | 650 | 1.15 | 14.95 | 17.193 | 41*41*26 |
| NA | 50000*8*1.6 | 50 | 650 | 1.18 | 15.34 | 17.641 | 41*41*26 |
| ET | 50000*10*4.8 | 50 | 100 | 4.48 | 8.96 | 10.304 | 25.5*25.5*26 |
| EF | 50000*10*5 | 50 | 100 | 4.95 | 9.9 | 11.385 | 25.5*25.5*26 |

Remark: data with 10% tolerance

▼Precautions

- ※ Please drive the led strip with 12VDC 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°C~40°C.Storage temperature: 0°C~60°C.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).