

CLASSIC Series Specification

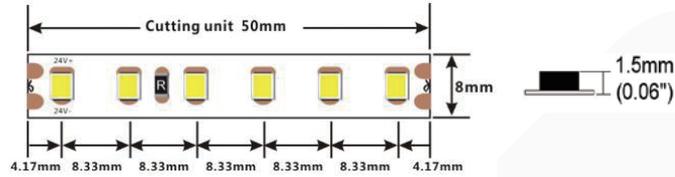
# D8120

## 24V-8mm



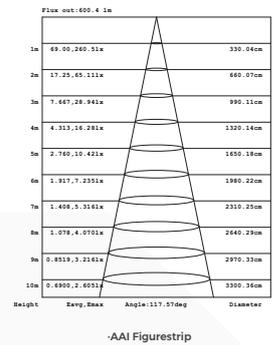
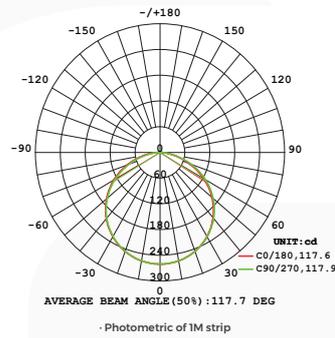
## 【General description】

- Double leds per cut for 24V, easily for customized application
- Self-encapsulated design offers 5 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)
- UL/UACK/CE/ROHS/REACH certification



## 【Dimension】

- |  |  |
|--|--|
| Input voltage: DC24V                       | Max.length: 10000mm(32.8')             |
| CRI: >80/90/95                             | Cutting unit: 6leds/50mm(1.98")        |
| Max.power: 14.9W/M(lm)                     | LED pitch: 8.33mm(0.33")               |
| Power range: 12.2~14.9W/M(lm)              | Min. bend diameter: $\Phi$ 60mm(2.36") |
| Rated current: 0.56A(lm)                   | Mounting: 3M tape                      |
| Typical Power: 13.5W/M(lm)                 | Copper foil: 3oz                       |
| tape IP: IP20/IP65/IP67/IP68               |  |
| On-off times: 10000 (test times)           |  |
| Warranty: 5 years indoor / 3 years outdoor |  |



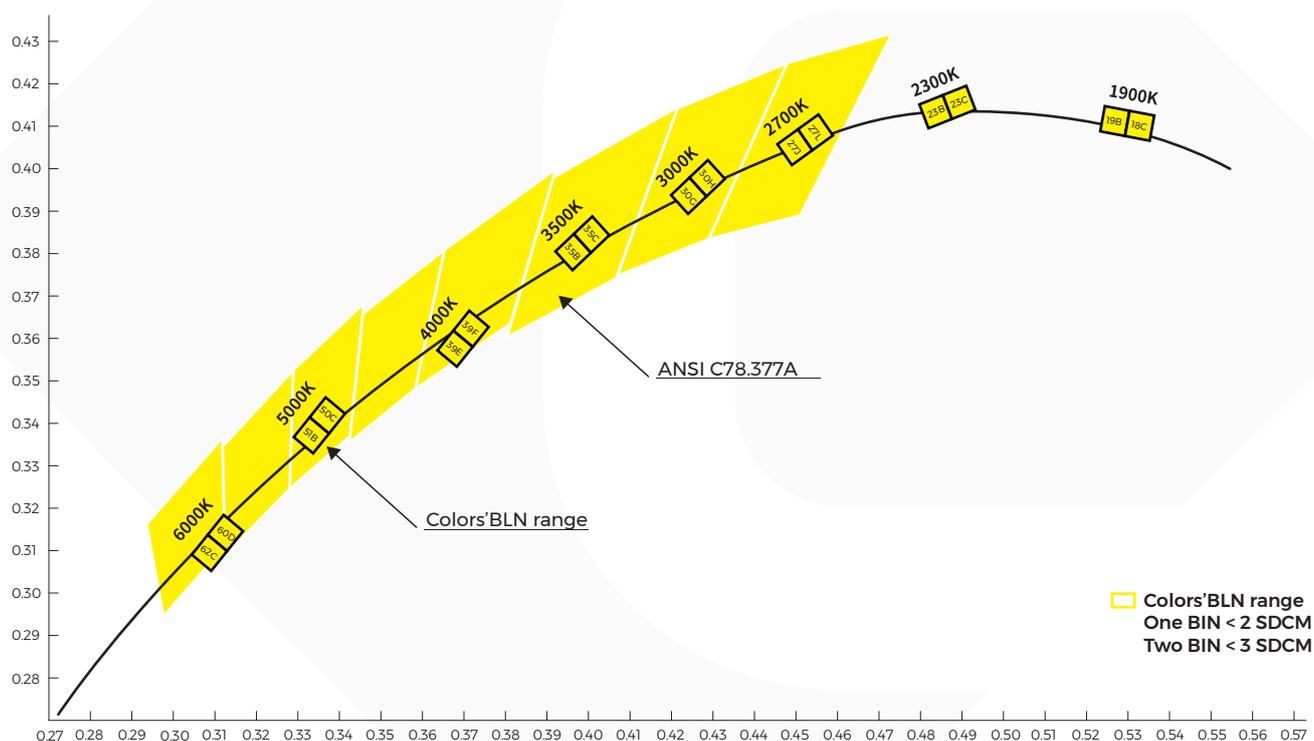
## 【Photo-electric Parameters】

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ERP 2019
Ra>80	GW	1900K	1160	253	86	G
Ra>80	LW	2300K	1325	403	98	F
Ra>80	SW	2700K	1470	448	109	F
Ra>80	WW	3000K	1550	473	115	F
Ra>80	PW	3500K	1550	473	115	F
Ra>80	NW	4000K	1540	469	114	F
Ra>80	DW	5000K	1470	448	109	F
Ra>80	W	6000K	1460	444	108	F
Ra>90	GW	1900K	1010	308	75	G
Ra>90	LW	2300K	1135	345	84	G
Ra>90	SW	2700K	1025	312	89	G
Ra>90	WW	3000K	1270	387	94	F
Ra>90	PW	3500K	1280	390	95	F
Ra>90	NW	4000K	1325	403	98	F
Ra>90	DW	5000K	1325	403	98	F
Ra>90	W	6000K	1270	387	94	F
Ra>95	SW	2700K	930	283	69	G
Ra>95	WW	3000K	1025	312	76	G

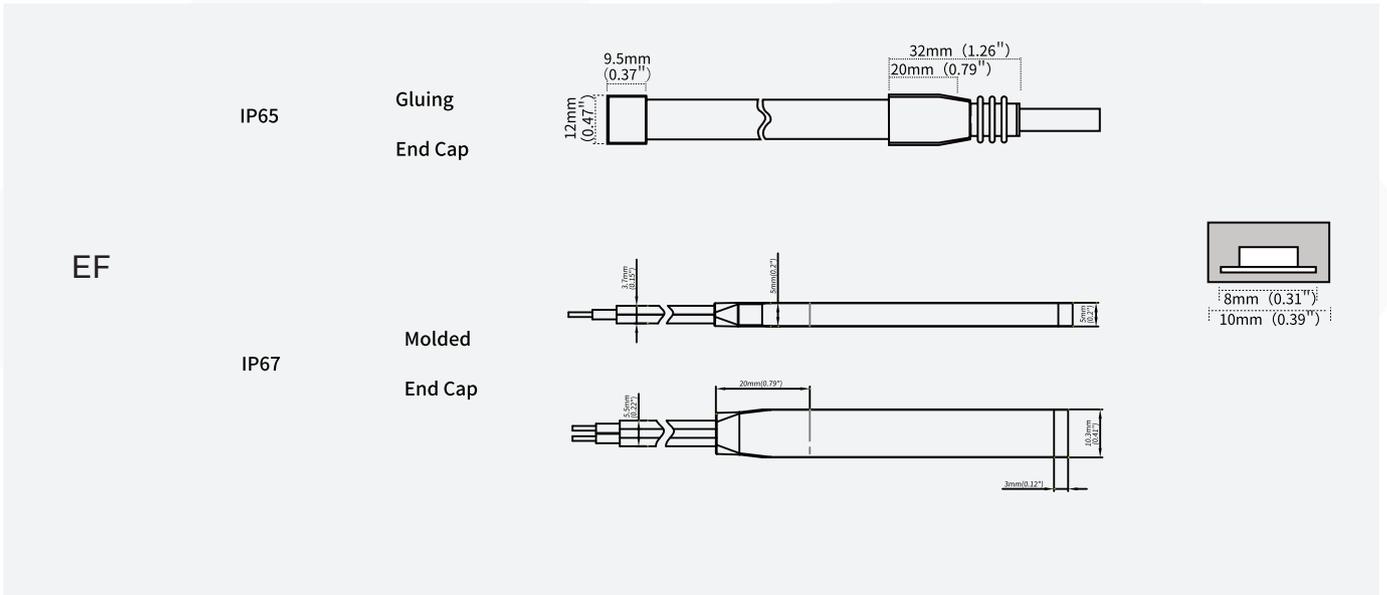
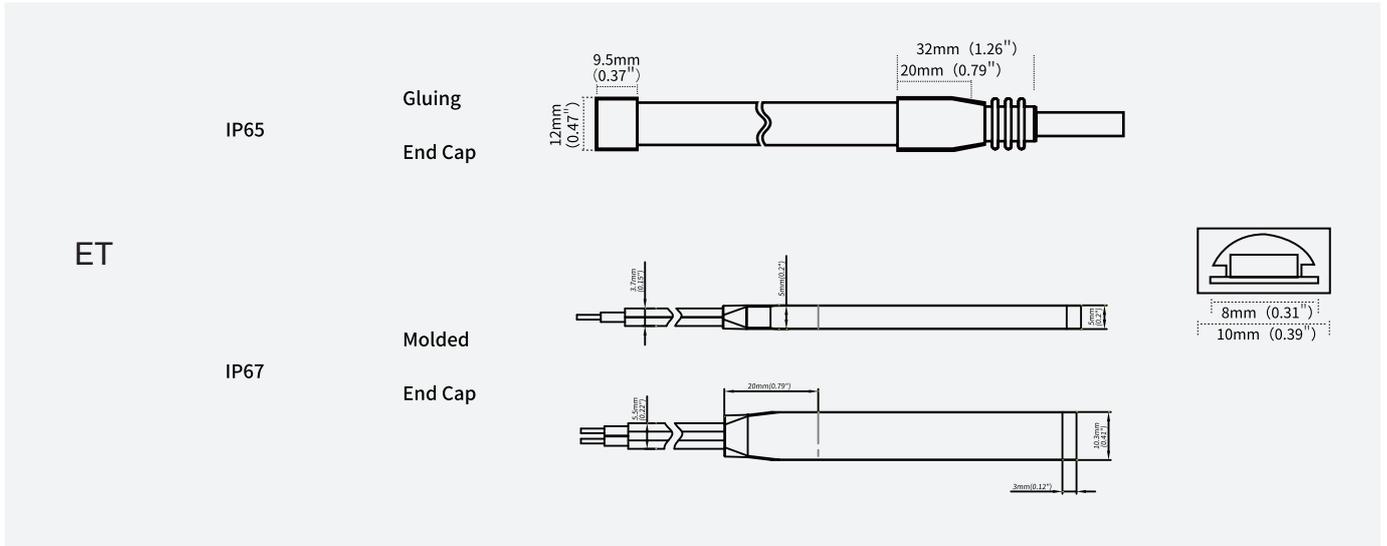
CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ERP 2019
Ra>95	PW	3500K	1145	349	85	G
Ra>95	NW	4000K	1145	349	85	G
0	G	520-530nm	/	/	/	/
0	B	465-470nm	/	/	/	/

- 1.The tolerance of output data can be vary up to 10%.
- 2.the output data tested according to IES TM-30-15.
- 3.the output data is based on IP20/Imerter, data of 5m in only for reference.
- 4.IP protection process leads changes to size, CCT and luminous flux.

**[BIN]**



**【 IP process structure and size 】**



## 【IP Process Parameters】

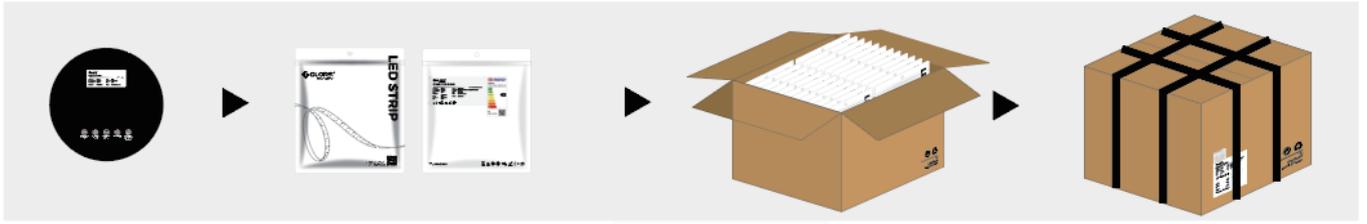
IP Process	Picture	Picture description	Size	optional CCT/color for finished product	lumen output rate
NO	 NO/IP20	No proof	8mm*1.5mm	1900K/2300K/2700K/3000K/3500K/4000K /5000K/6000K/G/B	100%
NA	 NANO/IP65	Nano-proof	8mm*1.6mm	1900K/2300K/2700K/3000K/3500K/4000K /5000K/6000K/G/B	98%
ET	 ET/IP67	Extrusion tube	10mm*4.8mm	1900K/2300K/2700K/3000K/3500K/4000K /5000K/6000K/G/B	88%
EF	 EF/IP67	Extrusion filling	10mm*5mm	2300K/2900K/3400K/3850K/5800K/8750K /15000K/G/B	86%
ETS	 ETS/IP65	Extrusion tube	10mm*4.8mm	1900K/2300K/2700K/3000K/3500K/4000K /5000K/6000K/G/B	88%

## 【Accessories Information】

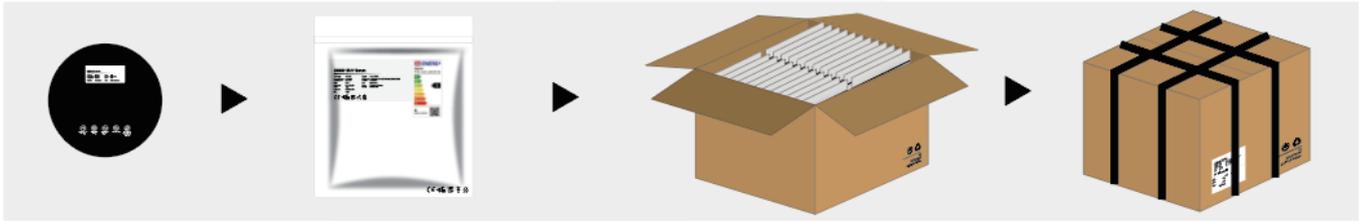
Name	Picture	Code	description
Connector for wire and FPC		94-42-620800001 TXB208-NOGA	8mm width, 2PIN connector of wire and FPC, suitable for white color strip, NO/NA, 2PIN wire 18- 22AWG
Connector for FPC and FPC		94-42-620800002 TBB208-NOGA	8mm width, 2PIN connector of FPC and FPC, suitable for white color strip, NO/NA
Slim connector		81-01-000000-000064 TBB208-NOTA	Suitable for 8mm board width, IP20, 2PIN board-to-board solderless terminal
Slim connector		81-01-000000-000066 TXB208-NOTA012	Suitable for 8mm board width, IP20, 2PIN wire- to-board solderless terminal
Fixed Clip		94-02-00-0002 FSW08SA	Silicone clip, screw: PA 3*8mm, suitable for 8mm FPC, EF/ET strip
Silicone Plug Kit		94-02-00-0044 DT08EA-A	Silicone plug kit, suitable for 8mm board width, ET/EF series silicone extrusion light strip
Silicone stopper kit		94-02-00-0045 DW08EA-A	Silicone tail plug kit, suitable for 8mm board width, ET/EF series silicone extrusion light strip
Mounting groove		94-02-00-0024 CVT08EA-12100100	Transparent PVC mounting groove, suitable for 8mm FPC, silicone extruded EF/ET strip
Stopper glue		94-16-03010001 AS-PG-0003	Silicone gel, suitable for ET/EF/EG waterproof LED strip
ET solderless plug		94-03-00-0027 PT208-ETWA	Monochromatic light strip, 8mm board width, ET protection technology
ET press-fit terminals		94-03-00-0028 CBX208-ETWA020	Monochromatic light strip, 8mm board width, ET protection technology
ET press-fit terminal kit		94-03-00-0029 STBX208-ETWA020	Monochromatic light strip, 8mm board width, ET protection technology

## 【Packing】

Colors brand package



General customized package

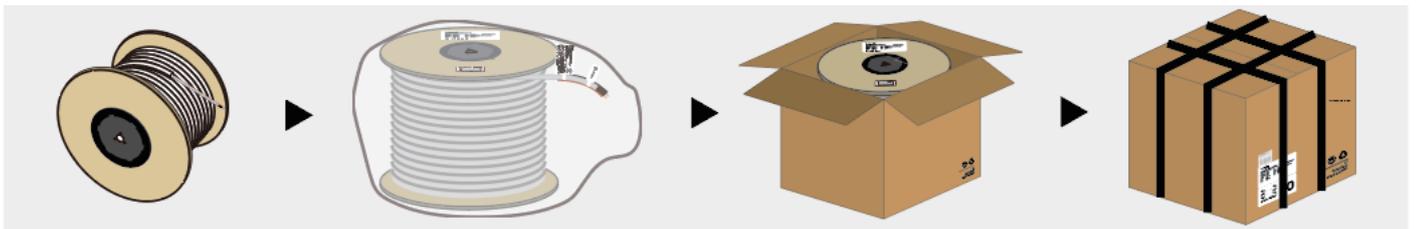


IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box(kg)	Gross weight(kg)	Package size (cm)
NO	5000*8*1.5	5	300	0.115	6.9	7.935	41*41*26
NA	5000*8*1.6	5	300	0.118	7.04	8.142	41*41*26
ET	5000*10*4.8	5	200	0.44	17.6	20.24	41*41*26
EF	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	5000*8*1.5	50	650	1.15	14.95	17.193	41*41*26
NA	5000*8*1.5	50	650	1.18	15.34	17.641	41*41*26
ET	5000*10*4.8	50	100	4.48	8.96	10.304	25.5*25.5*26
EF	5000*10 *5.0	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 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.