

SMDSeries

Specification

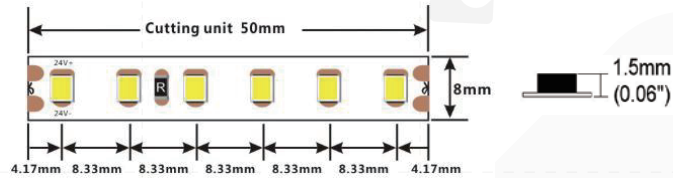
D8120

24V-8mm



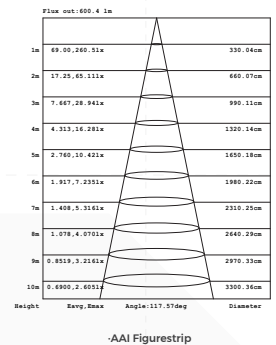
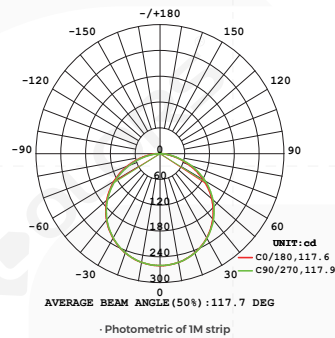
【General description】

- 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: 5000mm(16.4')
CRI: >80/90/95	Cutting unit: 6leds/50mm(1.98")
Max.power: 9.6W(1m)	LED pitch: 8.33mm(0.33")
Power range: 7.5 ~9.6W(1m)	Min. bend diameter: Φ 60mm(2.36")
Rated current: 0.35A(1m) /1.4A(5m)	Mounting: 3M tape
Typical Power: 8.4W(1m) /33.6W(5m)	Copper foil: 3oz
tape IP: IP20/IP65/IP67/IP68	
On-off times:10000 (test times)	
Warranty: 5 years indoor / 3 years outdoor	



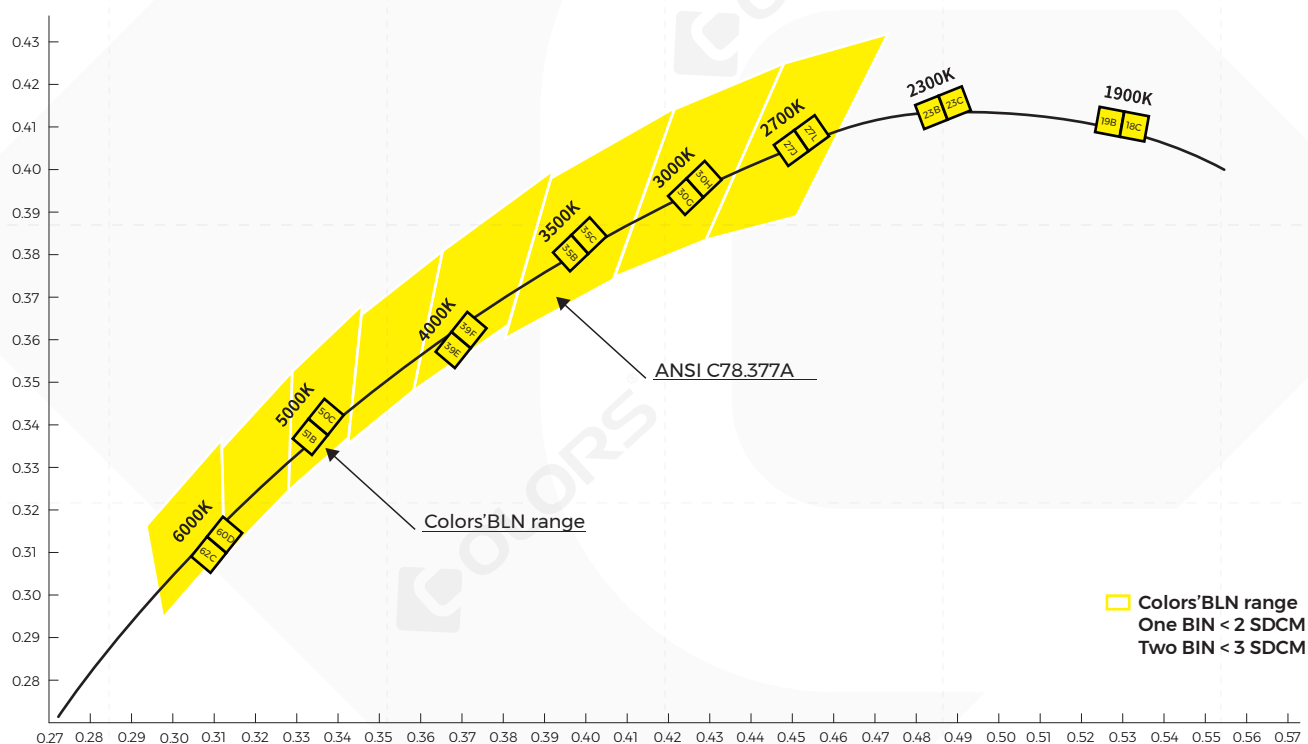
【Photo-electric Parameters】

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ERP 2019
Ra>80	GW	1900K	720	220	86	G
Ra>80	LW	2300K	820	250	98	F
Ra>80	SW	2700K	915	279	109	F
Ra>80	WW	3000K	965	295	115	F
Ra>80	PW	3500K	965	295	115	F
Ra>80	NW	4000K	957	292	114	F
Ra>80	DW	5000K	915	279	109	F
Ra>80	W	6000K	905	276	108	F
Ra>90	GW	1900K	630	192	75	G
Ra>90	LW	2300K	705	215	84	G
Ra>90	SW	2700K	745	227	89	G
Ra>90	WW	3000K	790	241	94	F
Ra>90	PW	3500K	795	243	95	F
Ra>90	NW	4000K	820	250	98	F
Ra>90	DW	5000K	820	250	98	F
Ra>90	W	6000K	790	241	94	F
Ra>95	SW	2700K	580	177	69	G
Ra>95	WW	3000K	635	194	76	G

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ERP 2019
Ra>95	PW	3500K	710	216	85	G
Ra>95	NW	4000K	710	216	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]

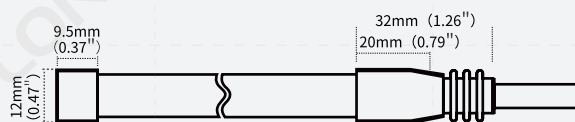


【 IP process structure and size 】

ET

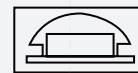
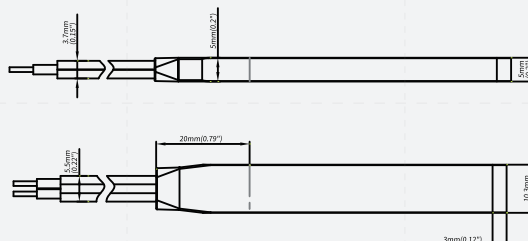
IP65

Gluing
End Cap



IP67

Molded
End Cap

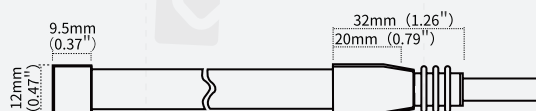


8mm (0.31")
10mm (0.39")

EF

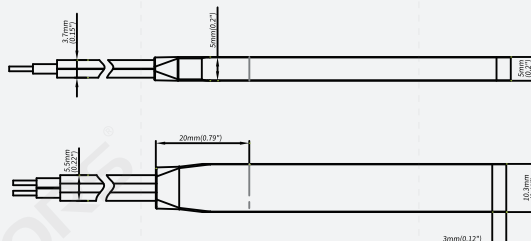
IP65

Gluing
End Cap



IP67

Molded
End Cap



8mm (0.31")
10mm (0.39")

【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】

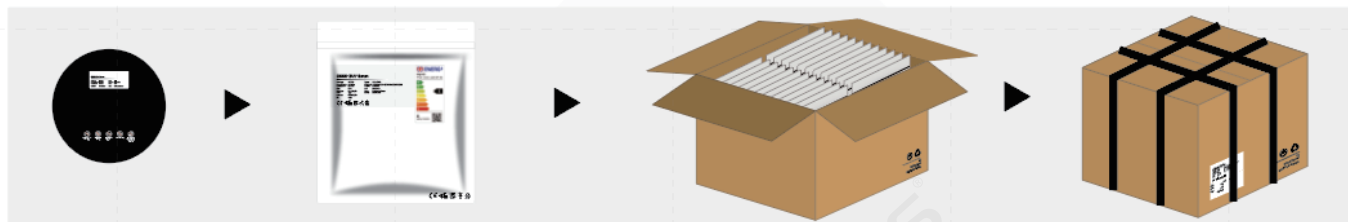
Name	Picture	Code	description	
Connector for wire and FPC		94-42-620800001	TXB208-NOGA	8mm width, 2PIN connector of wire and FPC, suitable for white color strip, NO/NA, 2PIN wire18- 22AWG
Connector for FPC and FPC		94-42-620800002	TBB208-NOGA	8mm width, 2PIN connector of FPC and FPC, suitable for white 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

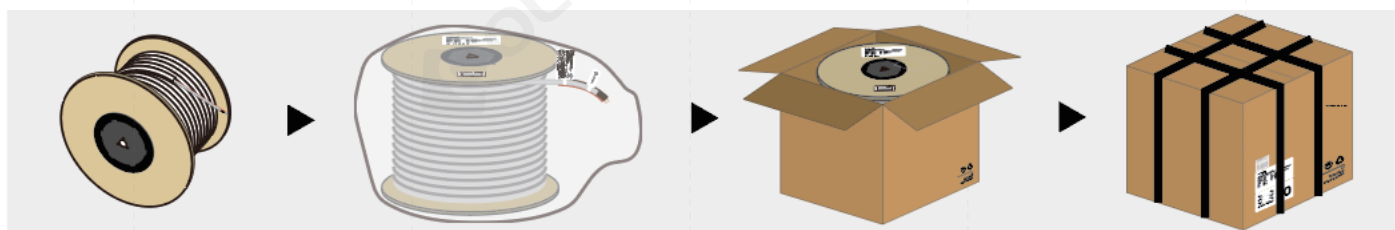


IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box(kg)	Gross weight(kg)	Package size (cm)
NO	5000*8*1.5	5	300	0.115	6.9	7.935	41*41*26
NA	5000*8*1.6	5	300	0.118	7.04	8.142	41*41*26
ET	5000*10*4.8	5	200	0.44	17.6	20.24	41*41*26
EF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

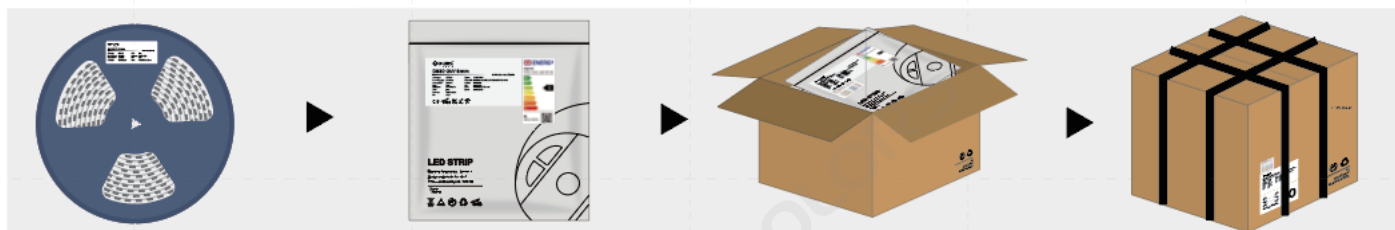
Remark: data with 10% tolerance

· 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 process of the product is NA. Ultraviolet rays will damage the nano-layers on the product and seriously affect the life of the product.