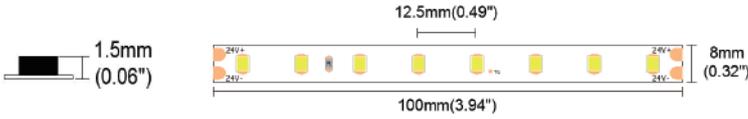## HIGH EFFICIENCY Series | Specification
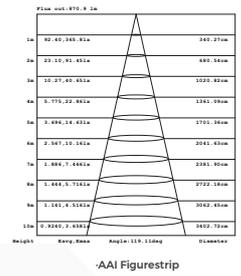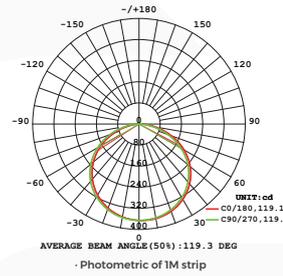
D880
24V-8mm

【General description】

· Luminance efficiency up to 160LM/W
· Self-encapsulated design offers eight optional 1900-6000K white lights
· With life span over 60000H
· Ta: -25~40℃；Tc：75℃(max)
· UL/UACK/CE/ROHS/REACH certification

12.5mm(0.49")

1.5mm
(0.06")

8mm
(0.32")

100mm(3.94")

【Dimension】

Input voltage：DC24V
CRI：80/90/95
Max.power: 7.2W(1m)
Power range: 6～7.2W(1m)
Rated current：0.275A(1m) /1.2A(5m)
Typical Power：6.6W(1m) /28.8W(5m)
tape IP：IP20/IP65/IP67
On-off times: 10000（test times）
Warranty：5 years indoor / 3 years outdoor

Max.length：5000mm(16.4')
Cutting unit：8leds/100mm(3.94")
LED pitch：12.5mm(0.49")
Min. bend diameter：Φ60mm(2.36")
Mounting：3M tape
Copper foil: 2oz

· Photometric of 1M strip

·AAI Figurestrip

【Photo-electric Parameters】

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>80	GW	1900K	800	240	121	E
Ra>80	LW	2300K	890	270	135	E
Ra>80	SW	2700K	960	290	145	E
Ra>80	WW	3000K	1010	305	153	D
Ra>80	PW	3500K	1025	310	155	D
Ra>80	NW	4000K	1050	320	160	D
Ra>80	DW	5000K	1050	320	159	D
Ra>80	W	6000K	1010	305	153	D
Ra>90	GW	1900K	640	195	97	F
Ra>90	LW	2300K	715	215	108	F
Ra>90	SW	2700K	775	235	117	F
Ra>90	WW	3000K	815	245	123	E
Ra>90	PW	3500K	830	250	126	E
Ra>90	NW	4000K	850	255	129	E
Ra>90	DW	5000K	850	255	129	E
Ra>90	W	6000K	815	245	123	E

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>95	GW	1900K	635	190	96	F
Ra>95	LW	2300K	705	210	107	F
Ra>95	SW	2700K	765	230	116	F
Ra>95	WW	3000K	805	245	122	E
Ra>95	PW	3500K	820	250	124	E
Ra>95	NW	4000K	840	255	127	E
Ra>95	DW	5000K	805	245	122	E
Ra>0	G	525nm	625	190	95	/
Ra>0	B	470nm	132	40	20	/

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 IP20/1merter，data of 5m in only for reference.

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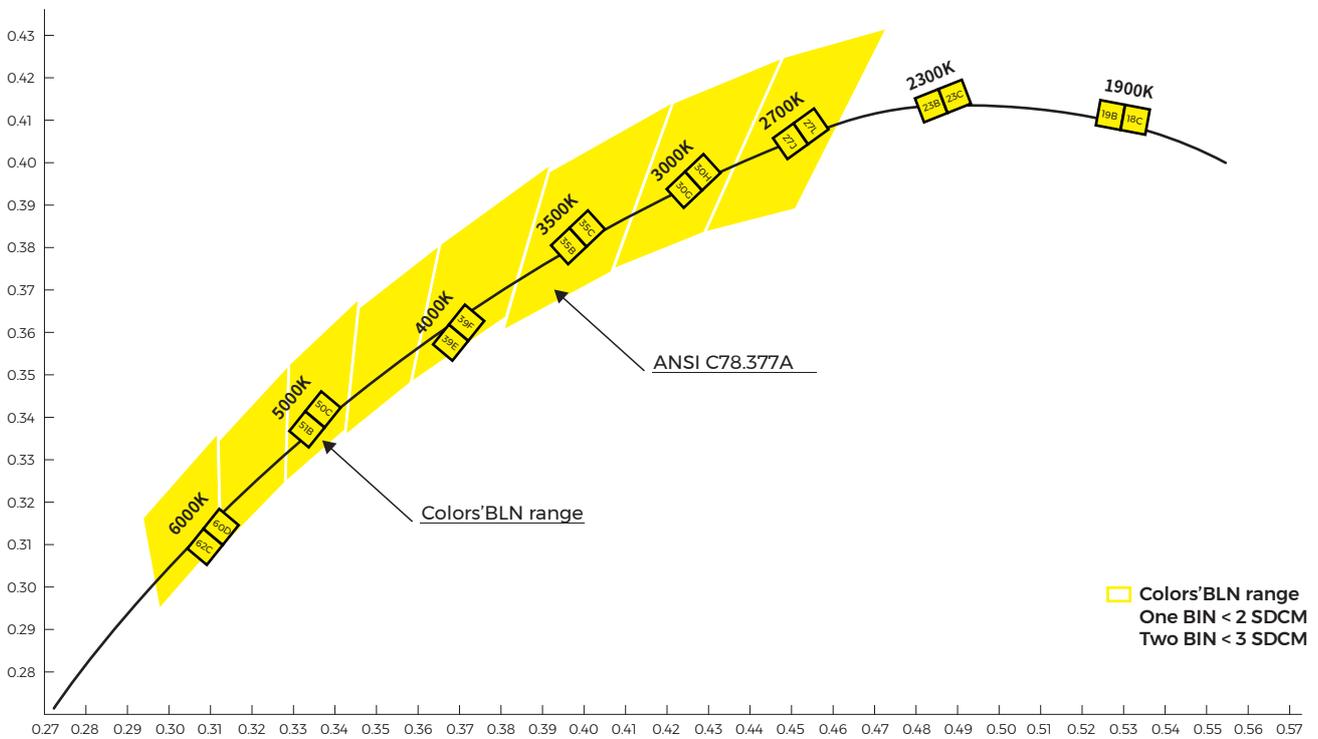
【IP process information】

ET

IP65 — Gluing End Cap

9.5mm (0.37")
12mm (0.47")
32mm (1.26")
20mm (0.79")

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

IP67 — Molded End Cap

3.7mm (0.15")
5mm (0.2")
5mm (0.2")
5.5mm (0.22")
20mm (0.79")
10.3mm (0.41")
3mm (0.12")

EG

IP65 — Gluing End Cap

10mm (0.39")
9.3mm (0.37")
32mm (1.26")
16mm (0.63")

8mm (0.31")
9.3mm (0.37")

EF

IP65 — Gluing End Cap

9.5mm (0.37")
12mm (0.47")
32mm (1.26")
20mm (0.79")

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

IP67 — Molded End Cap

3.7mm (0.15")
5mm (0.2")
5mm (0.2")
5.5mm (0.22")
20mm (0.79")
10.3mm (0.41")
3mm (0.12")

【Electronic & output data】

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*1.5mm	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%
EG	EG/IP65	Extrusion curved tube	9.3mm*3.8mm	1900K/2300K/2700K/3000K/3500K/ 4000K/5000K/6000K/G/B	88%
EGR	EGR/IP65	Milky white all-inclusive hollow arc extrusion	9.3mm*3.8mm	2300K/2700K/3000K/4000K/G/B	85%
EF	EF/IP67	Extrusion filling	10mm*5mm	2300K/2900K/3400K/3850K/5800K/ 8750K/15000K/G/B	86%

【Accessories Information】

| Name	Picture	Code	coding	description
Connector for wire and FPC		81-01-000002-000035	CXB208-NOTA	8MM-2P solderless connector(wire to board)\ Compatible with 20&22AWG wire\20#(6A);22#(4A)\ Applicable to bare board 8mm width lamp strip
Connector for FPC and FPC		81-01-000002-000034	CBB208-NOTA	8MM-2P solder-free connector (board-to board)\ suitable for bare board 8mm width strip light
Fixed Clip		94-02-00-0002	FSW08SA	Silicone clip, screw: PA 3*8mm, suitable for 8mm FPC,EF/ET strip
Gas phase rubber plug		94-02-00-0038	DT08EG-A	Translucent gas phase adhesive plug, suitable for 8mm wide silicone extrusion eg lamp with
Gas phase gel plugging		94-02-00-0039	DW08EG-A	Translucent gas phase adhesive plug, suitable for 8mm wide silicone extrusion eg lamp with end plug

Name	Picture	Code	coding	description
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, ETS protection technology
ET press-fit terminals		94-03-00-0028	CBX208-ETWA020	Monochromatic light strip, 8mm board width, ETS protection technology
ET press-fit terminal kit		94-03-00-0029	STBX208-ETWA020	Monochromatic light strip, 8mm board width, ETS protection technology

【Packing】

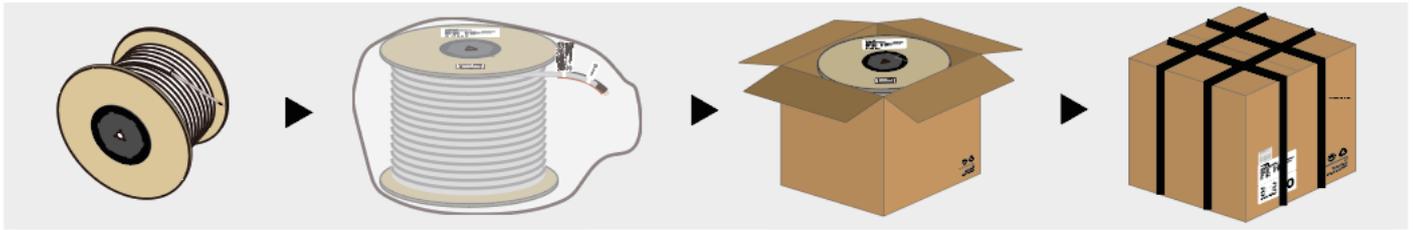Colors brand package
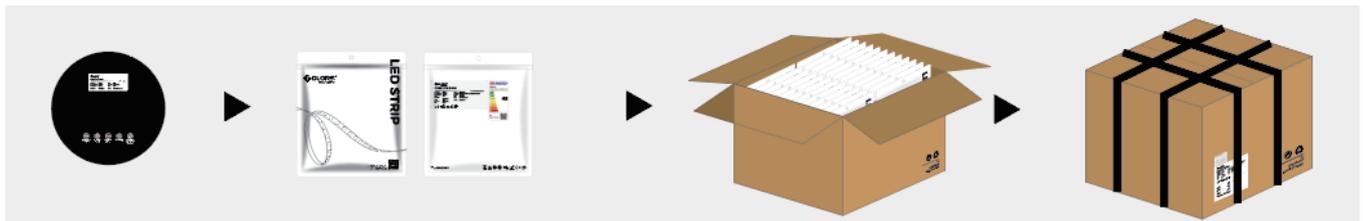
General customized package
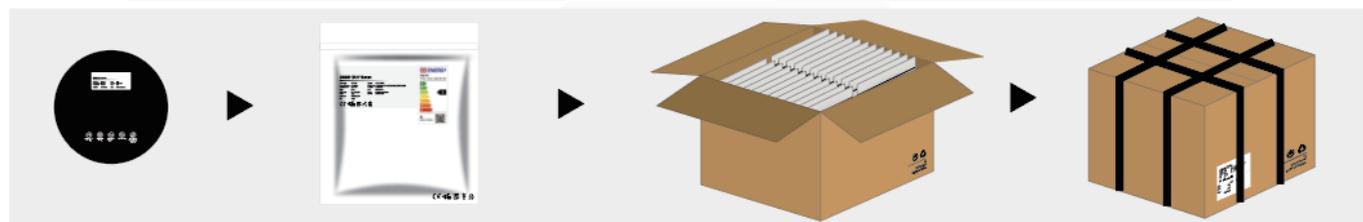
IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box(kg)	Gross weight(kg)	Package size (cm)
NO	5000*8*1.5	5	300	0.118	7.08	8.142	41*41*26
NA	5000*8*1.6	5	300	0.12	7.2	8.28	41*41*26
ET	5000*10*4.8	5	200	0.443	17.72	20.378	41*41*26
EG/EGR	5000*9.3*3.8	5	200	0.2	8.2	9.43	41*41*26
EF	5000*10*5	5	200	0.489	19.76	22.724	41*41*26

Remark：data with 10% tolerance

· Engineering packaging of EG/EGR(IP65)/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	1.18	15.34	17.641	41*41*26
NA	50000*8*1.6	50	650	1.2	15.6	17.94	41*41*26
ET	50000*10*4.8	50	100	4.52	9.04	10.396	25.5*25.5*26
EG/EGR	50000*9.3*3.8	50	100	2	4	4.6	25.5*25.5*26
EF	50000*10*5	50	100	4.98	9.96	11.454	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.