

Specification

DS8120-24V-12mm



▼General description

- 20m long strip driven by one end power supply with the same brightness from end to end and luminous flux up to 1000lm/M
- Self-encapsulated design offers eight optional 1900-6000K white lights
- With life span over 60000H
- Ta: -25~40°C; Tc: 75°C (max)



▼Dimension

※Max.length: 20000mm

Cutting unit: 6leds/50mm

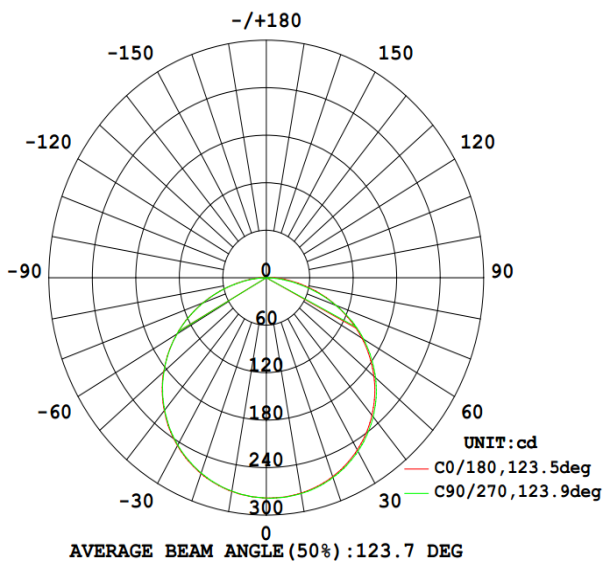
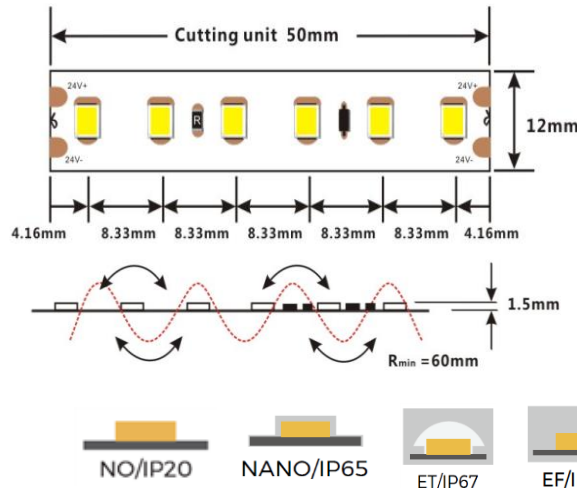
LED pitch: 8.33mm

Min. bend diameter: Φ60mm

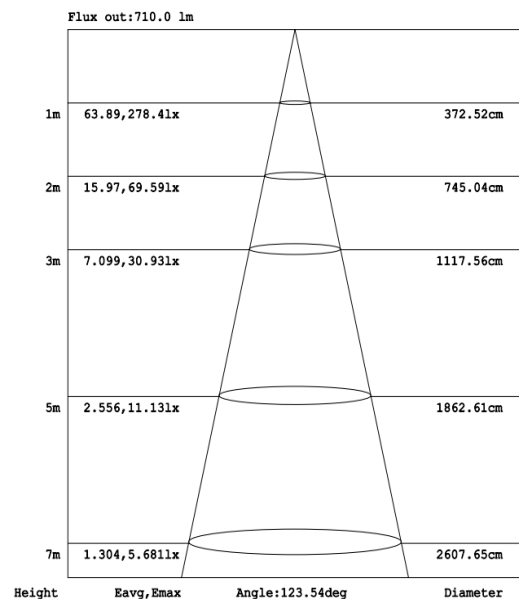
Mounting: 3M tape

IP: IP20/IP65/IP67/IP68

※Warranty: 5years



Photometric of 1M strip



AAI Figure

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

※Warranty is based on indoor use

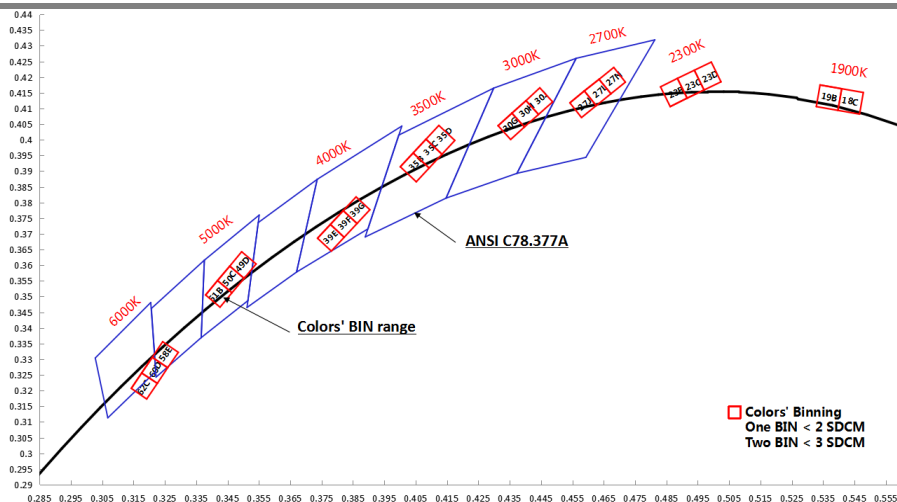
▼ Electronic & output data

Input voltage: DC24V	Rated current: 0.363A(1m) /7.1A(20m)
Typical Power: 8.7W(1m) /170.4W(20m)	CRI: >90/95/98
Max.power: 9.6W	On-off times: 10000 (test times)
Power range: 8 ~ 9.6W	Copper foil: 3oz


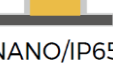

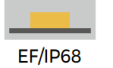
CRI	Color	CCT	Lumen(lm)	lm/W	Energy efficiency class
Ra>90	GW	1900K	680	78	A
Ra>90	LW	2300K	760	87	A+
Ra>90	SW	2700K	810	93	A+
Ra>90	WW	3000K	850	98	A+
Ra>90	PW	3500K	870	100	A+
Ra>90	NW	4000K	890	102	A+
Ra>90	DW	5000K	890	102	A+
Ra>90	W	6000K	850	98	A+
Ra>95	SW	2700K	622	72	A+
Ra>95	WW	3000K	683	78	A+
Ra>95	PW	3500K	759	87	A+
Ra>95	NW	4000K	759	87	A+
Ra>98	SW	2700K	610	68	A+
Ra>98	WW	3000K	640	70	A+
Ra>98	NW	4000K	680	75	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	12mm*1.5mm	1900K/2300K/2700K/3000K/ 3500K/4000K/5000K/6000K/G/B	100%
NA	 NANO/IP65	Nano-proof	12mm*1.5mm	1900K/2300K/2700K/3000K/ 3500K/4000K/5000K/6000K/G/B	98%
ET	 ET/IP67	Extrusion tube	14mm*4.8mm	1900K/2300K/2700K/3000K/ 3500K/4000K/5000K/6000K/G/B	88%
EF	 EF/IP68	Extrusion filling	14mm*5mm	2300K/2900K/3400K/3850K/ 5800K/8750K/15000K/G/B	86%

▼ Accessories Information

Name	Picture	Code	description
Connector for wire and FPC		94-03-00-0038	12mm width, 2PIN connector of wire and FPC,suitable for white color strip, NO/NA,2PIN wire18- 22AWG
Connector for FPC and FPC		94-03-00-0040	12mm width, 2PIN connector of FPC and FPC,suitable for white color strip,NO/NA
Fixed Clip		94-02-00-0004	Silicone clip, screw: PA 3*8mm, suitable for 12mm FPC,EH/EF/ET strip
Fixed Clip		94-02-00-0019	Fixed clip, transparent, 3*8mm self-tapping screws, suitable for 12mm FPC,NO/NA LED strip
Silicone end cap set		94-02-00-0023	including end cap and plug,suitable for 12mm FPC,EH/ET/EF silicone extrusion strip
Mounting groove		94-02-00-0026	Transparent PVC mounting groove,suitable for 12mm 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	
DS	-	8	2835	120	120 LED	24	24V	12	12mm	NO	NO	9	> 90	GW	1900K
										NA	NANO	H	> 95	LW	2300K
										EF	Extrusion filling	F	> 98	SW	2700K
										ET	Extrusion tube	0	0	WW	3000K
														PW	3500K
														NW	4000K
														DW	5000K
														W	6000K
														G	Green
														B	Blue
DS	-	8		120		24		12		NO		9		GW	

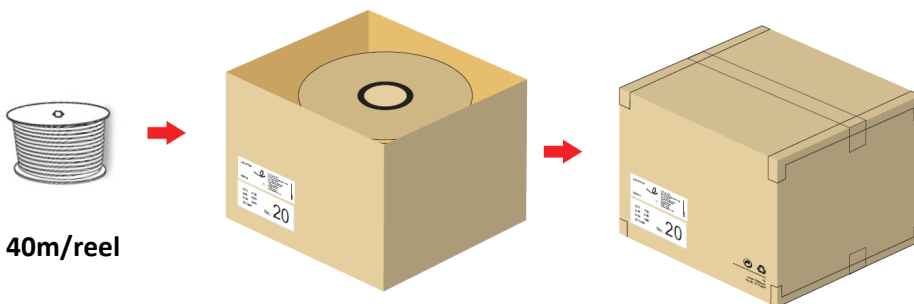
9: Silk Printing		10: Entry cable		11: Wire type		12: Wire length		13: Tape type		14: Label Type		15: Strip Length	
N	Neutral	S	Single	A	red and black cable	012	12cm	W	White 3M	C	COLORS	2000	20m
C	COLORS	D	Doubel	B	SM-male wire	020	20cm	Y	Yellow 3M	S	Customized		
S	Customized	X	Nothing	C	SM-female wire	050	50cm	R	Red tape				
				X	Nothing	100	100cm	X	Nothing				
						0	Nothing						
N		S		A		012		W		C		2000	

DS81202412NO-9GWNSA012WC2000

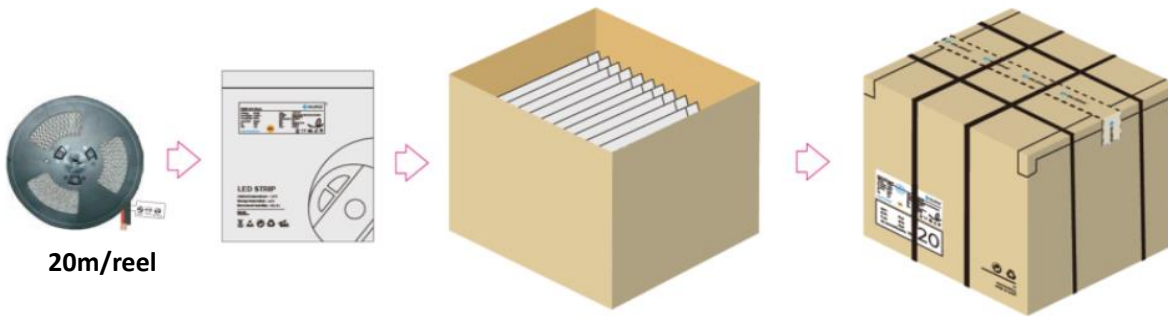
▼ Packing

Engineering packaging of ET(IP67)/EF(IP68)

(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	20000*12*1.5	20	500	0.55	13.75	15.812	41*41*26
NA	20000*12*1.6	20	500	0.56	14	16.1	41*41*26
ET	20000*14*4.8	20	80	2.55	10.2	11.73	25.5*25.5*26
EF	20000*14*5	20	80	2.95	11.8	13.57	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°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).