COLORS
Linear Lighting

PRO Series | Specification

D8160

48V-10mm

E498657

E-mail:colors@colorsled.com

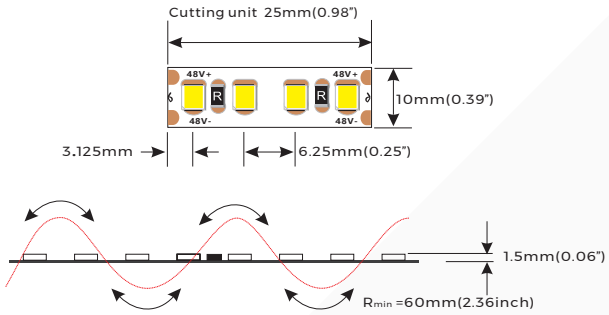
Version：A/01

www.colorsled.com

【General description】

- Single-ended power supply for 15m,Consistent luminance
- Provide 2700-6000K 5 kinds of white light optional
- With life span over 60000H
- One stop linear light source solution
- Ta: -25~40°C；Tc：75°C（max）

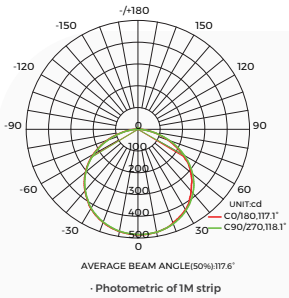




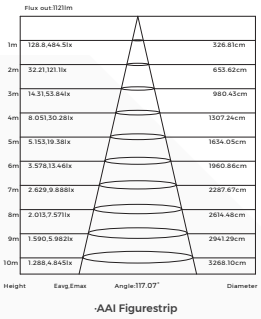
【Dimension】

Input voltage：DC48V
CRI：80/90
Max.power: 13.8W(1m)
Power range: 10.8～13.8W(1m)
Rated current：0.25A(1m) 3.75A(15m)
Typical Power：12W(1m) 180W(15m)
IP： IP20/IP65/IP67
On-off times: 10000（test times）
Warranty： 5years
(Warranty is based on indoor use)

Max.length： 15000mm(49.2')
Cutting unit：4leds/25mm(0.98")
LED pitch：6.25m(0.25")
Min. bend diameter：Φ60mm(2.36")
Mounting： 3M tape
Copper foil: 2oz



· Photometric of 1M strip

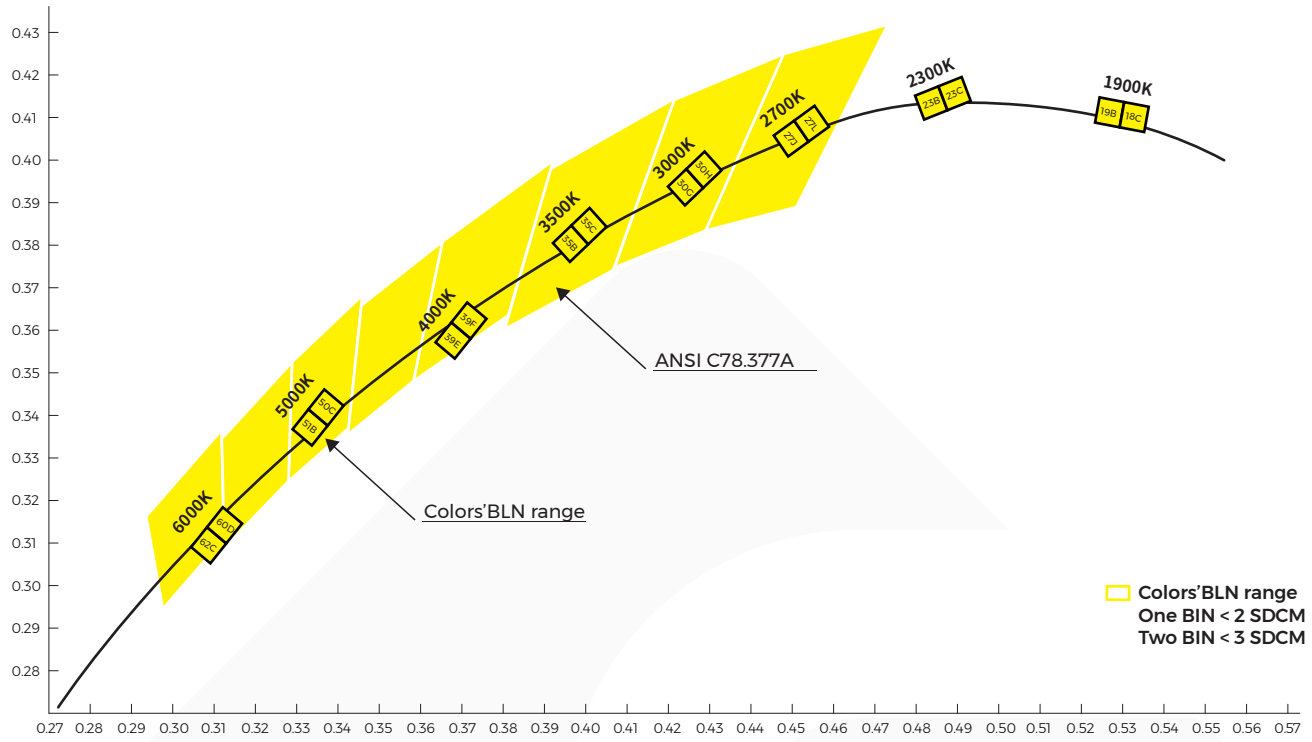


·AAI Figurestrip

【Photo-electric Parameters】

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>80	SW	2700K	1330	405	111	F
Ra>80	WW	3000K	1350	411	113	F
Ra>80	NW	4000K	1400	426	117	F
Ra>80	DW	5000K	1420	432	119	F
Ra>80	W	6000K	1290	393	108	F
Ra>90	SW	2700K	1080	330	90	/
Ra>90	WW	3000K	1140	350	95	/
Ra>90	NW	4000K	1200	365	100	F
Ra>90	DW	5000K	1165	355	97	/
Ra>90	W	6000K	1140	350	95	/

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 15m in only for reference.
4.IP protection process leads changes to size, CCT and luminous flux.



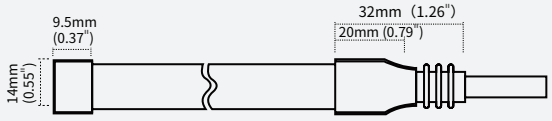
【IP process information】

ET

IP65

Gluing

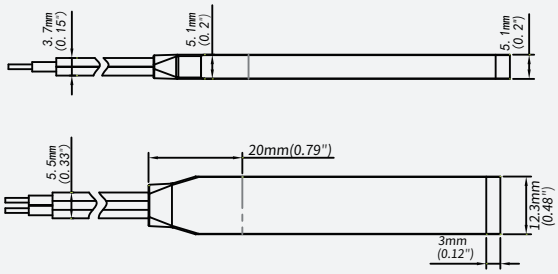
End Cap

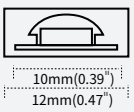


IP67

Molded

End Cap



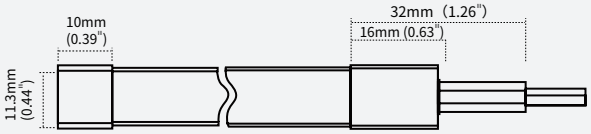


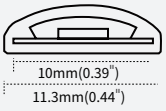
EG

IP65

Gluing

End Cap



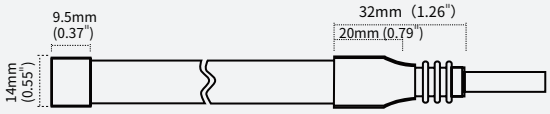


EF

IP65

Gluing

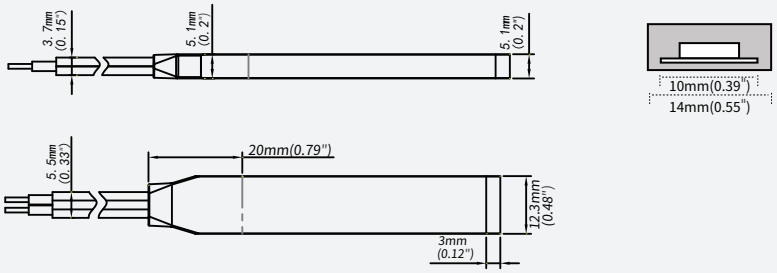
End Cap



IP67

Molded

End Cap

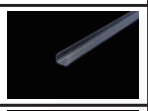


【Electronic & output data】

IP Process	Picture	Picture description	Size	optional CCT/color for finished product	lumen output rate
NO	 NO/IP20	No proof	10mm*1.5mm	2700K/3000K/4000K/5000K/6000K	100%
NA	 NANO/IP65	Nano-proof	10mm*1.5mm	2700K/3000K/4000K/5000K/6000K	98%
ET	 ET/IP67	Extrusion tube	12mm*4.8mm	2700K/3000K/4000K/5000K/6000K	88%
EG	 EG/IP65	Extrusion	11.3mm*3.8mm	2700K/3000K/4000K/5000K/6000K	88%
EF	 EF/IP67	Milky white all-inclusive hollow arc extrusion	12mm*5mm	3400K/3850K/5800K/8750K/15000K	86%

【Accessories Information】

Name	Picture	Code	coding	description
Connector for FPC and FPC		81-01-000002-000038	CBB210-NOTA	10MM-2P solder-free connector (board-to board)\ suitable for bare board 10mm width strip light
Connector for wire and FPC		81-01-000002-000039	CXB210-NOTA	10MM-2P solderless connector(wire to board)\ Compatible with 20&22AWG wire\20#(6A);22#(4A)\ Applicable to bare board 10mm width lamp strip
Protective connector for FPC and FPC		81-01-000002-000056	CBB210-EFWA	10MM-2P protective solderless connector (board to-board)\applicable to 10mm width\ EF lamp strip
Protective connector for FPC and FPC		81-01-000002-000057	CXB210-EFWA	10MM-2P protective solderless connector(wire to board)\20AWG wire(6A)\applicable to 10mm width\EF lamp strip

Name	Picture	Code	coding	description
L-connector for FPC and FPC		81-01-000002-000053	CBBL210-NOTA	10MM-2P solderless (L) connectors (board-to board)\ for bare board 10mm width light strip
Fixed Clip		94-02-00-0003	FSW10SA	Silicone clip, screw: PA 3*8mm, suitable for 10mm FPC,EF/ET strip
Gas phase rubber plug		94-02-00-0040	DT10EG-A	Translucent gas phase adhesive plug, suitable for 10mm wide silicone extrusion eg lamp with plug
Gas phase gel plugging		94-02-00-0041	DW10EG-A	Translucent gas phase adhesive plug, suitable for 10mm wide silicone extrusion eg lamp with end plug
Silicone Plug Kit		94-02-00-0046	DT10EA-A	Silicone plug kit is suitable for 10mm board width, ET/EF series silicone extrusion light strip
Silicone stopper kit		94-02-00-0047	DW10EA-A	Silicone tail plug kit is suitable for 10mm board width, ET/EF series silicone extrusion light strip
Mounting groove		94-02-00-0025	CVT10EA-14100100	Transparent PVC mounting groove,suitable for 10mm 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		94-03-00-0030	PT210-ETWA	Monochromatic light strip, 10mm board width, ET protection technology
ET press-fit terminals		94-03-00-0031	CBX210-ETWA020	Monochromatic light strip, 10mm board width, ET protection technology
ET press-fit terminal kit		94-03-00-0032	STBX210-ETWA020	Monochromatic light strip, 10mm board width, ET protection technology

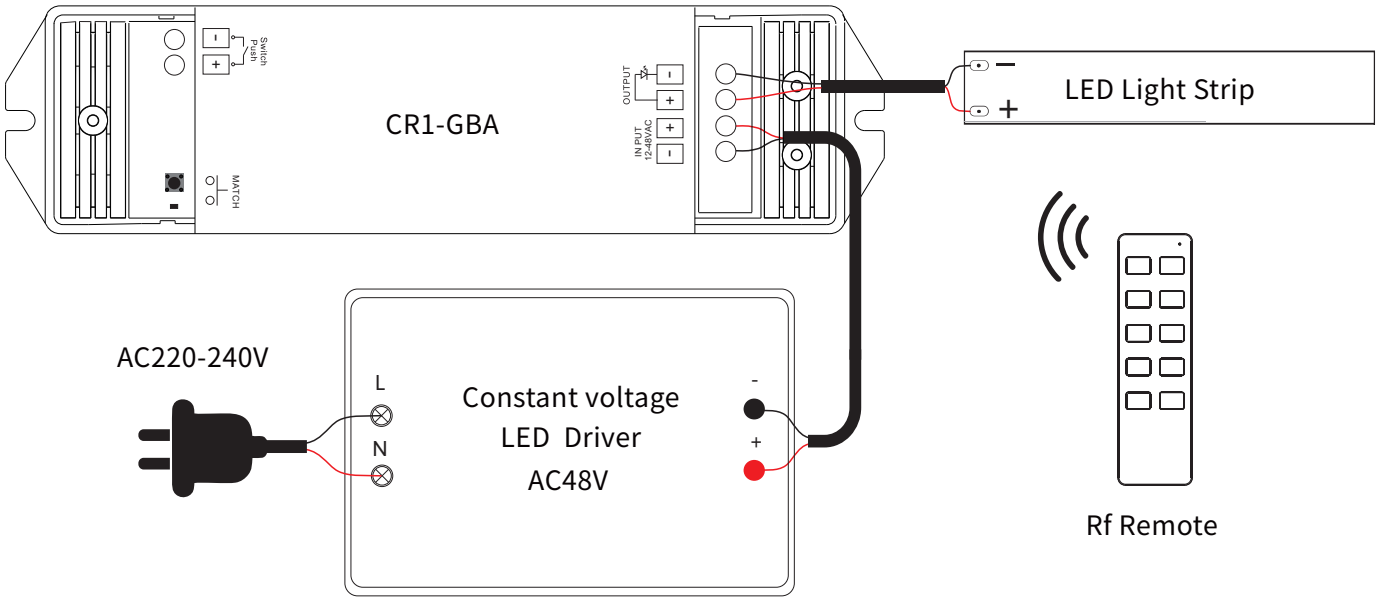
【Product Solutions】

·Controller & Power Supply

Product Image	Product Name	Product number	Order Code	Product Specifications	Applicable Products
	Dimmer For LED Strip	CR1-GBA	402-01-000000-00001	Input voltage：12-48VDC Max load current：15A*1CH 10A*1CH,Max10A@36/48V。 Max load power:180/360W@12/24V, 360W/480W@36/48V Operating temperature：-30°C-55°C Product Size：L175*W45*H27(mm)	single light strip (Use with CK1-GBA)
	Remote	CK1-GBA	402-02-000000-00001	Operating Voltage：3VDC (Battery CR2032) Working frequency：2.4GHz Remote control distance：30m Operating temperature：-30°C-55°C Product Size：L107*W58.5*H9(mm)	single light strip (Use with CR1-GBA)
	Constant Voltage LED Driver	BN-V48-250P	401-01-000000-00006	Input voltage：220-240V Output voltage:48V Output Power:0-250W Output current:5.21A,PF>0.95 400×40×22mm,5 years warranty.	48V light

【Product Solutions】

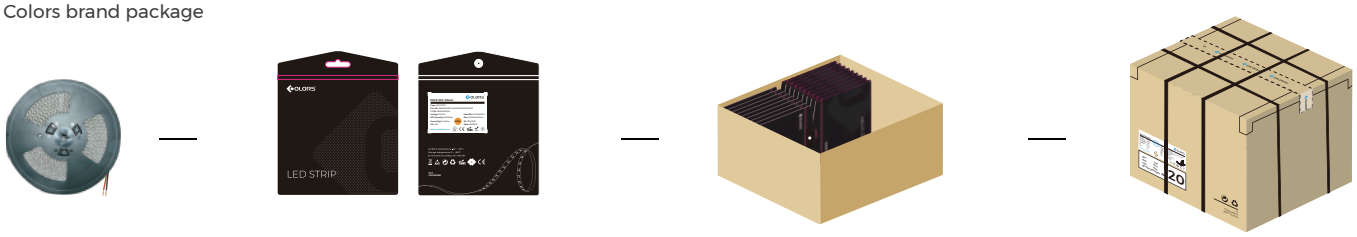
· Wiring diagram



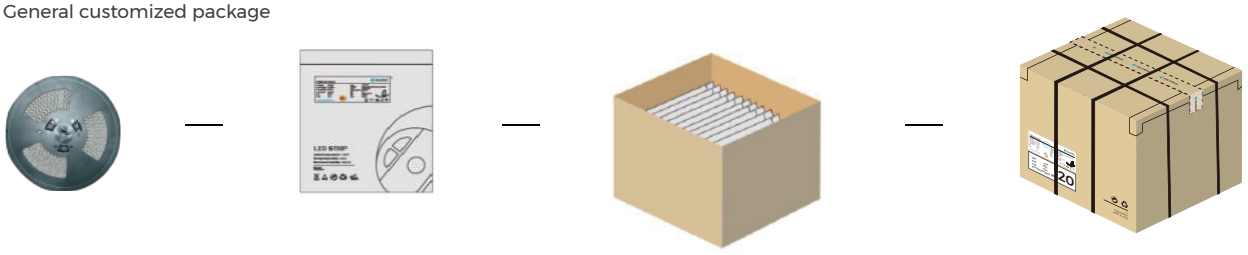
Note: This controller supports the Push function, and the 0-10V/Dall dimming function can be found in the EUCHIPS specification.

【Packing】

Colors brand package



General customized package

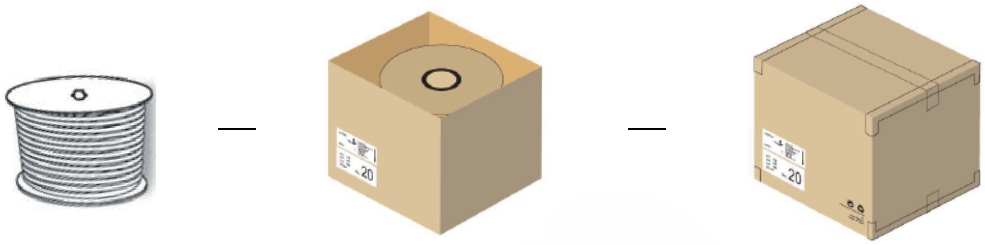


IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box(kg)	Gross weight(kg)	Package size (cm)
NO	15000*10*1.5	15	600	0.2897	11.59	13.33	41*41*26
NA	15000*10*1.5	15	600	0.2987	11.95	13.74	41*41*26
ET	15000*12*4.8	15	150	1.199	11.99	13.79	41*41*26
EG	15000*11.3*3.8	15	150	0.439	4.4	5.06	41*41*26
EF	15000*12*5	15	210	1.40	19.64	22.58	41*41*26

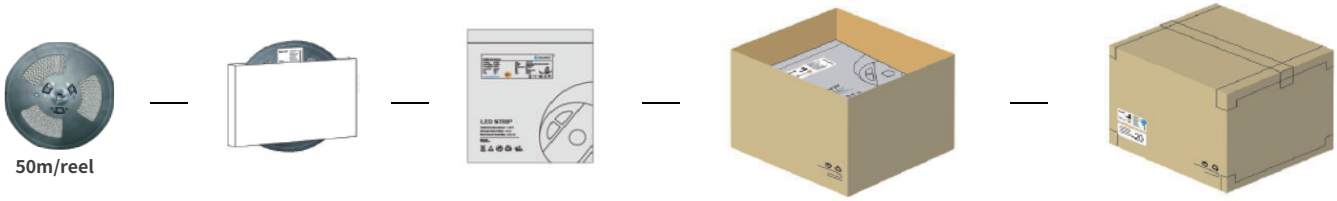
Remark: data with 10% tolerance

· Engineering packaging of ET(IP67)

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



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



50m/reel

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*10*1.5	50	650	0.966	12.55	14.44	41*41*26
NA	50000*10*1.5	50	650	0.996	12.94	14.89	41*41*26
ET	50000*12*4.8	50	100	3.99	7.99	9.19	25.5*25.5*26
EG	50000*11.3*3.8	50	100	1.47	2.93	3.37	25.5*25.5*26
EF	50000*12*5	50	100	4.68	9.35	10.75	25.5*25.5*26

Remark: data with 10% tolerance

【Precautions】

- Please drive the led strip with 48VDC 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.