

PRO Series Specification

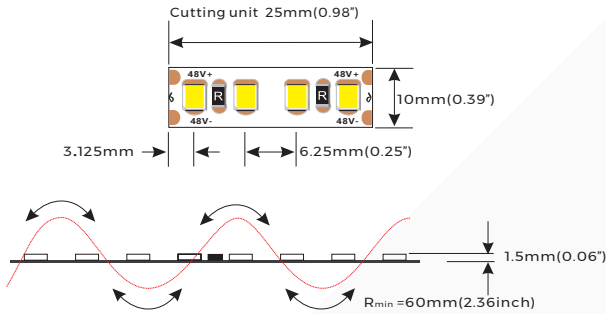
# D8160

## 48V-10mm



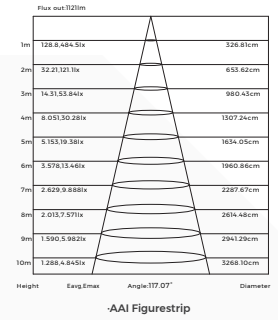
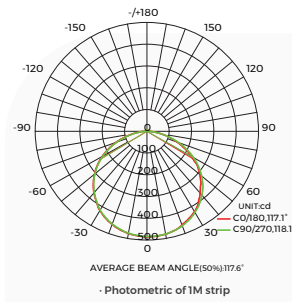
## 【General description】

- 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】

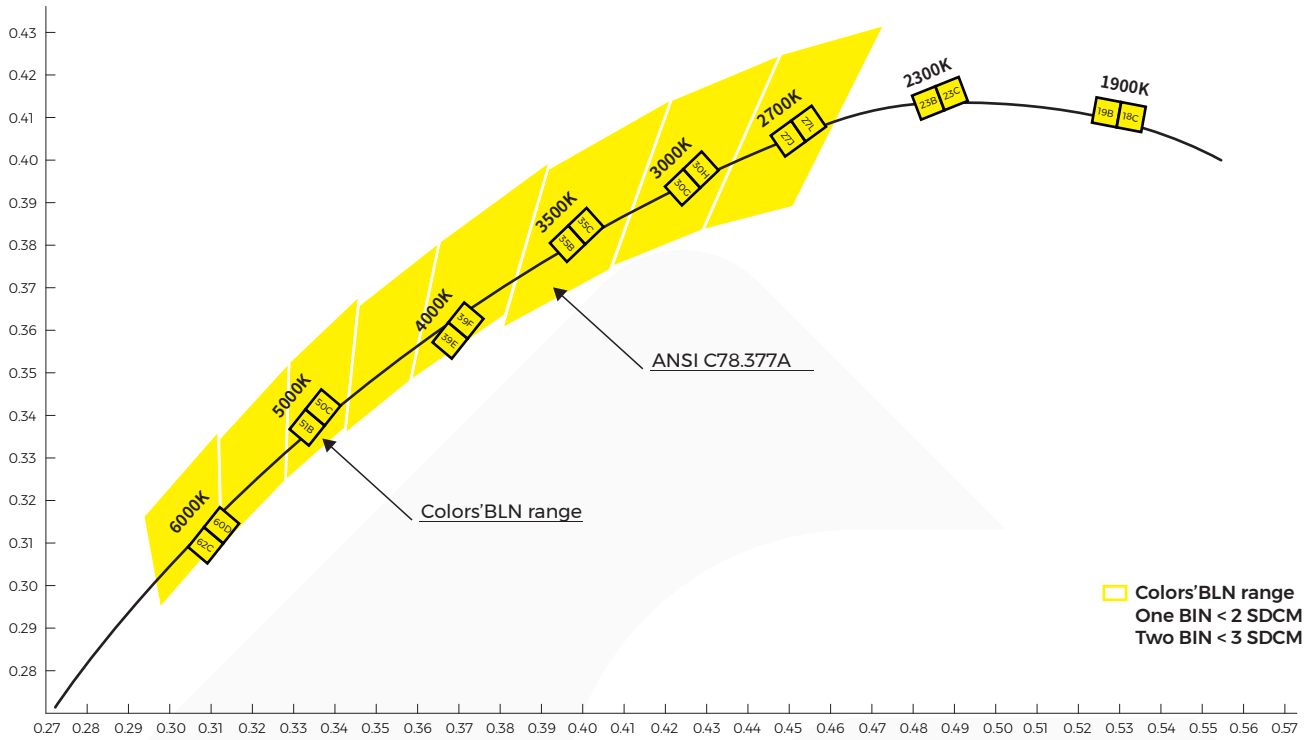
Input voltage: DC48V	Max.length: 15000mm(49.2')
CRI: 80/90	Cutting unit: 4leds/25mm(0.98")
Max.power: 13.8W(1m)	LED pitch: 6.25mm(0.25")
Power range: 10.8 ~ 13.8W(1m)	Min. bend diameter: Φ60mm(2.36")
Rated current: 0.25A(1m) 3.75A(15m)	Mounting: 3M tape
Typical Power: 12W(1m) 180W(15m)	Copper foil: 2oz
IP: IP20/IP65/IP67	
On-off times: 10000 (test times)	
Warranty: 5years	



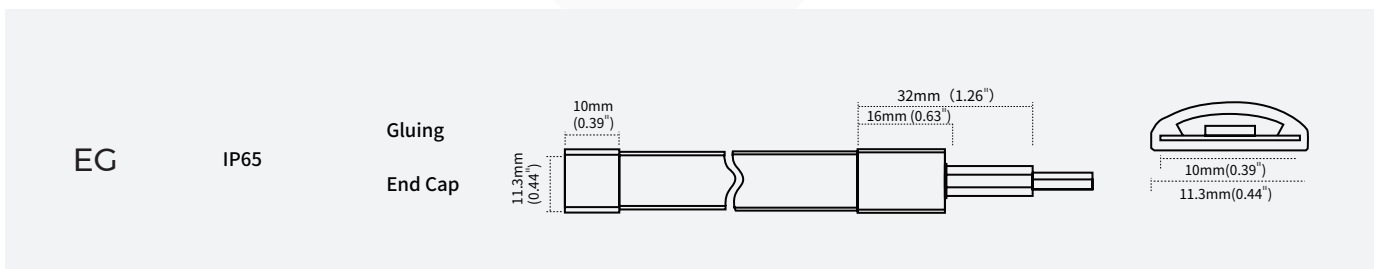
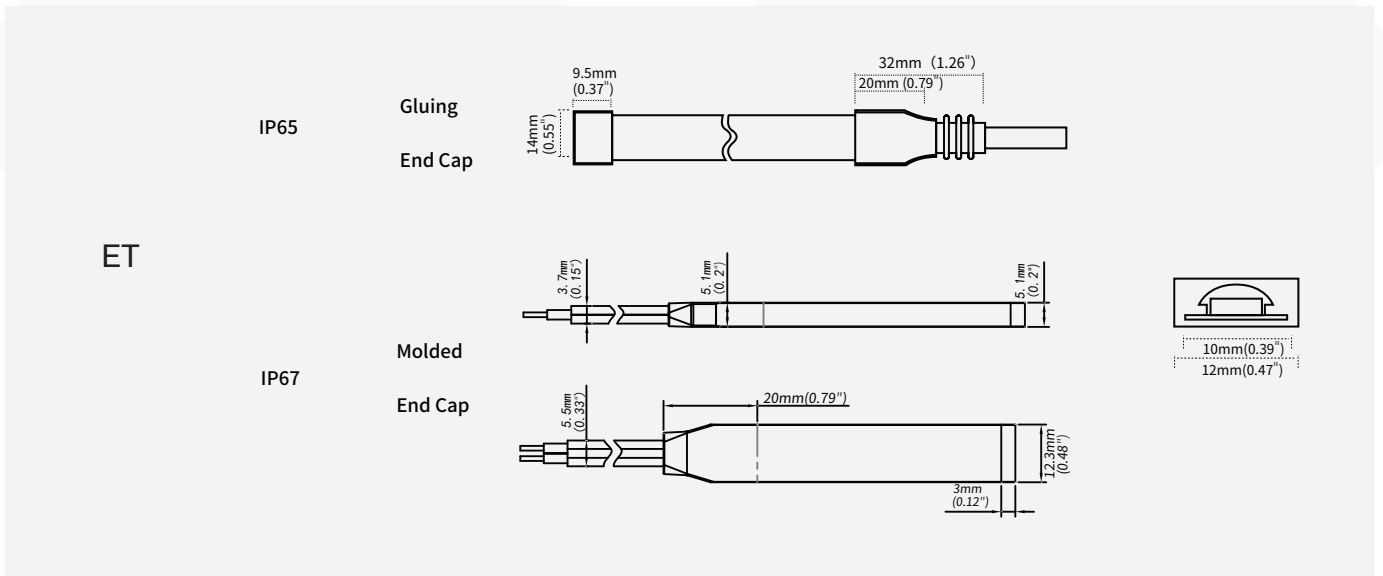
## 【Photo-electric Parameters】

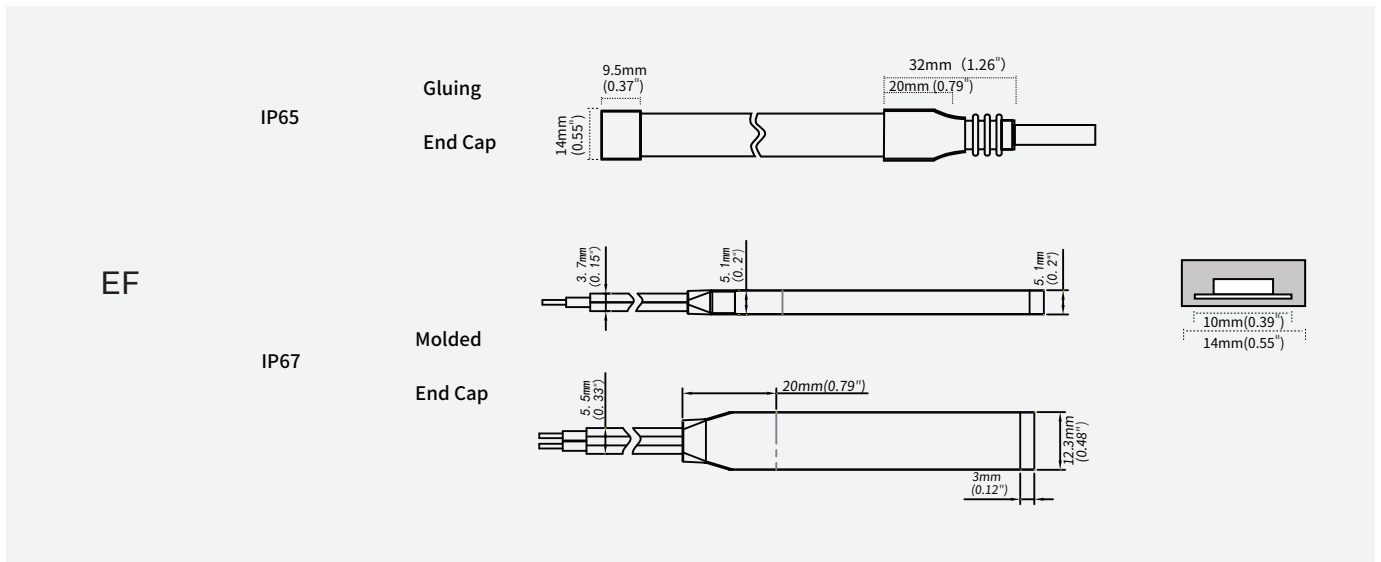
CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>80	SW	2700K	1330	405	111	G
Ra>80	WW	3000K	1350	411	113	G
Ra>80	NW	4000K	1400	426	117	G
Ra>80	DW	5000K	1420	432	119	G
Ra>80	W	6000K	1290	393	108	G
Ra>90	SW	2700K	1080	330	90	G
Ra>90	WW	3000K	1140	350	95	G
Ra>90	NW	4000K	1200	365	100	G
Ra>90	DW	5000K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

- 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/lm/merter, data of 15m in only for reference.
- 4.IP protection process leads changes to size, CCT and luminous flux.



**[IP process information]**



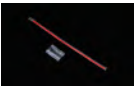



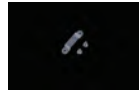

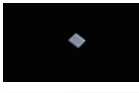




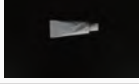
**【Electronic & output data】**

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

**【Product Solutions】**




• Connector Accessories

Name	Picture	Code	description
Connector for wire and FPC		94-03-00-0037	10mm width, 2PIN connector of wire and FPC, suitable for white color strip, NO/NA
Connector for FPC and FPC		94-42-621020004	10mm width, 2PIN connector of FPC and FPC, suitable for white color strip,NO/NA
Slim connector		94-03-00-0064	Suitable for 10mm board width, IP20, 2PIN board-to-board solderless terminal
Slim connector		94-03-00-0067	Suitable for 10mm board width, IP20, 2PIN wire- to-board solderless terminal
Gas phase rubber plug		94-02-00-0040	Translucent gas phase adhesive plug, suitable for 10mm wide silicone extrusion eg lamp with plug

Name	Picture	Code	description
Gas phase gel plugging		94-02-00-0041	Translucent gas phase adhesive plug, suitable for 10mm wide silicone extrusion eg lamp with end plug
Fixed Clip		94-02-00-0003	Silicone clip, screw: PA 3*8mm, suitable for 10mm FPC,EF/ET strip
Gas phase rubber plug		94-02-00-0044	Silicone cap with hole&without hole, suitable for 8mmFPC, ET waterproof LED strip
Gas phase gel plugging		94-02-00-0045	Silicone end cap with hole&without hole, suitable for 8mmFPC, ET waterproof LED strip
ET solderless plug		94-03-00-0030	Monochromatic light strip, 10mm board width, ET protection technology
ET press-fit terminals		94-03-00-0031	Monochromatic light strip, 10mm board width, ET protection technology
ET press-fit terminal kit		94-03-00-0032	Monochromatic light strip, 10mm board width, ET protection technology
Mounting groove		94-02-00-0025	Transparent PVC mounting groove,suitable for 10mm FPC,silicone extruded EF/ET strip
Stopper glue		94-16-03010001	Silicone gel,suitable for ET/EF/EG waterproof LED strip

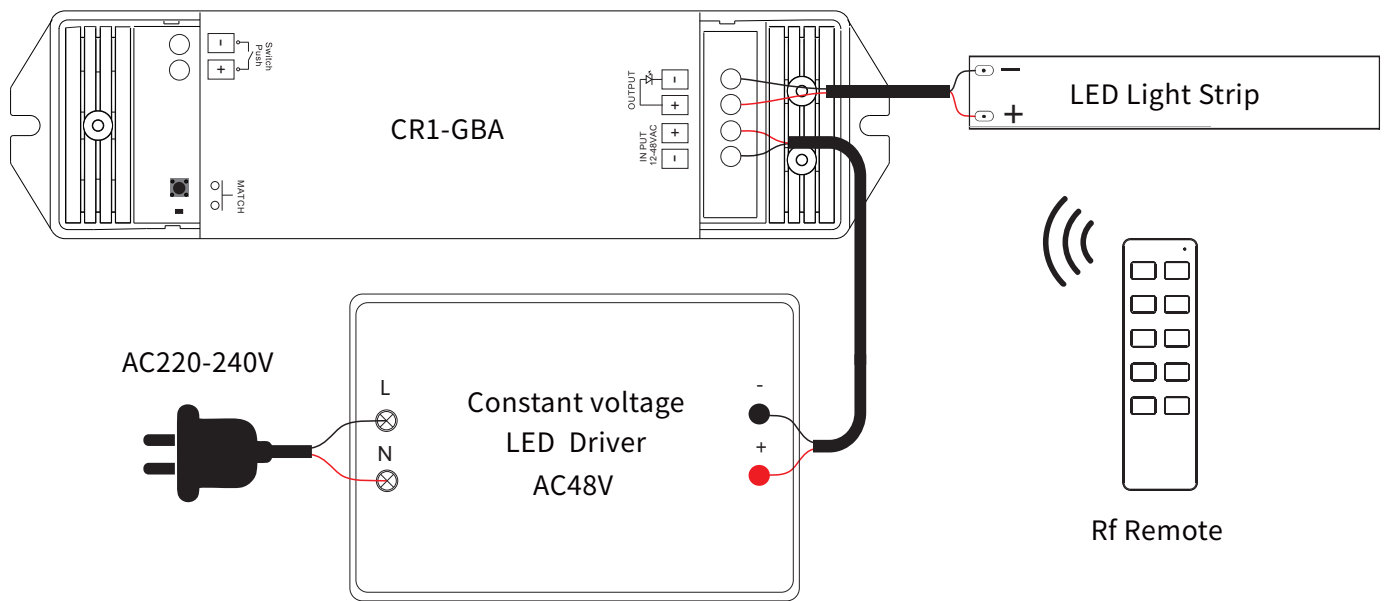
### [Product Solutions]

#### · 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]**

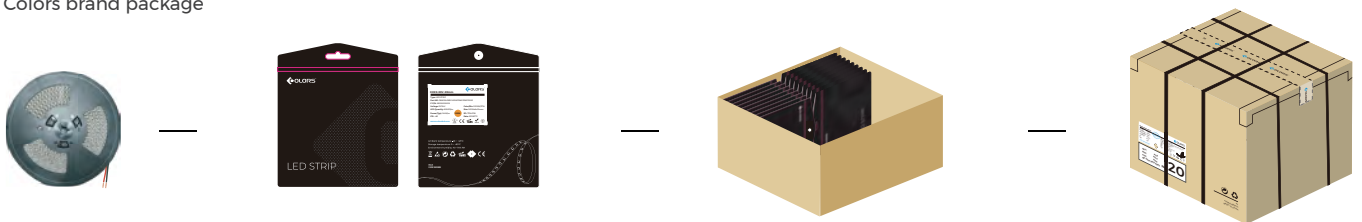
· Wiring diagram



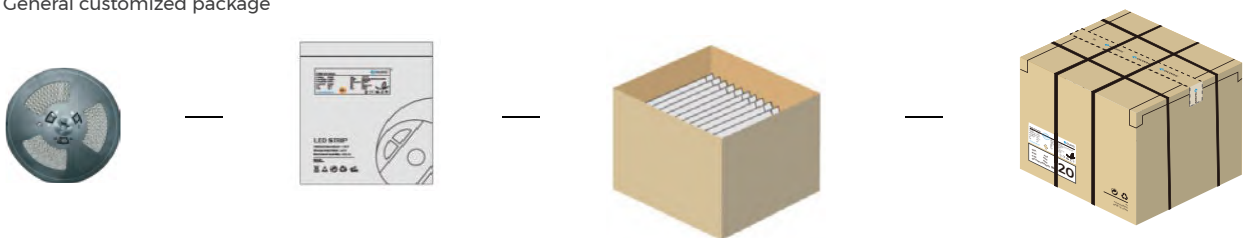
Note: This controller supports the Push function, and the 0-10V/Dall dimming function can be found in the EUCHIPS specification.

**[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

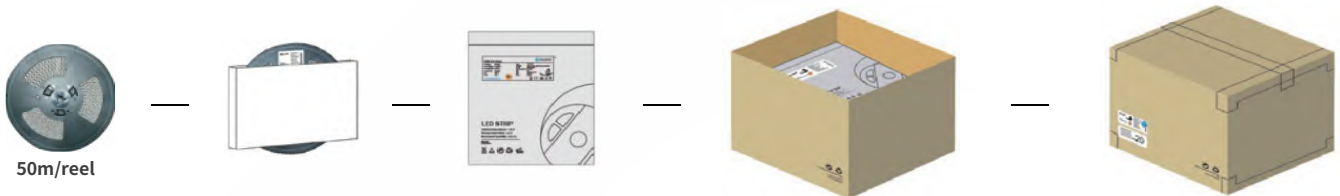
Remark: data with 10% tolerance

· **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)**



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