

ULTRA LONG Series Specification

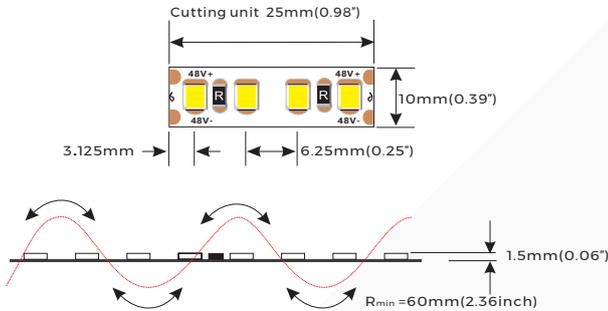
D8160

48V-10mm



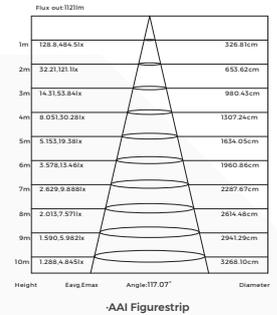
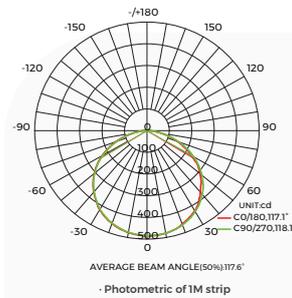
【General description】

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



【Dimension】

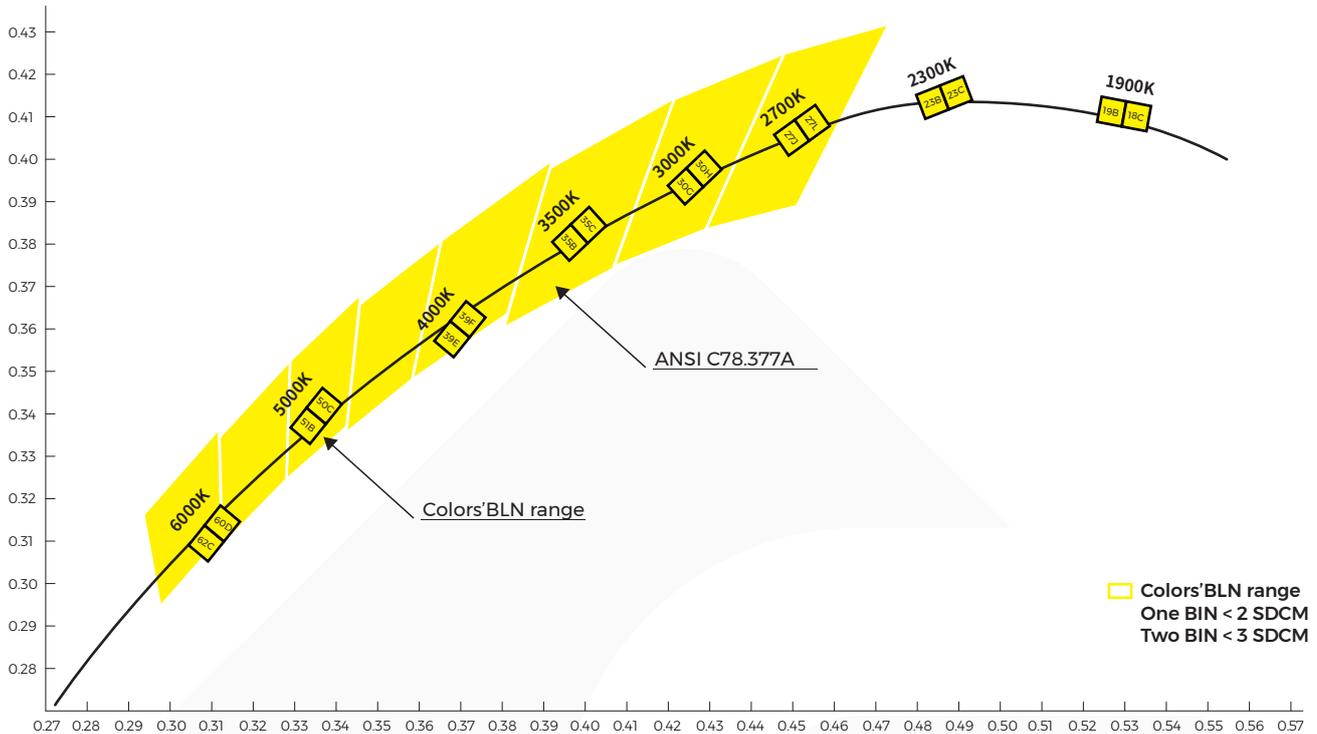
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| Input voltage: DC48V | Max.length: 15000mm(49.2') |
| CRI: 80/90 | Cutting unit: 4leds/25mm(0.98") |
| Max.power: 13.8W(1m) | LED pitch: 6.25mm(0.25") |
| Power range: 10.8 ~ 13.8W(1m) | Min. bend diameter: Φ 60mm(2.36") |
| Rated current: 0.25A(1m) 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: 5 years indoor / 3 years outdoor | |



【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 10%.
- 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.



【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%

【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
L-connector for FPC and FPC		81-01-000002-000053	CBL210-NOTA	10MM-2P solderless (L) connectors (board-to board)\ for bare board 10mm width light strip

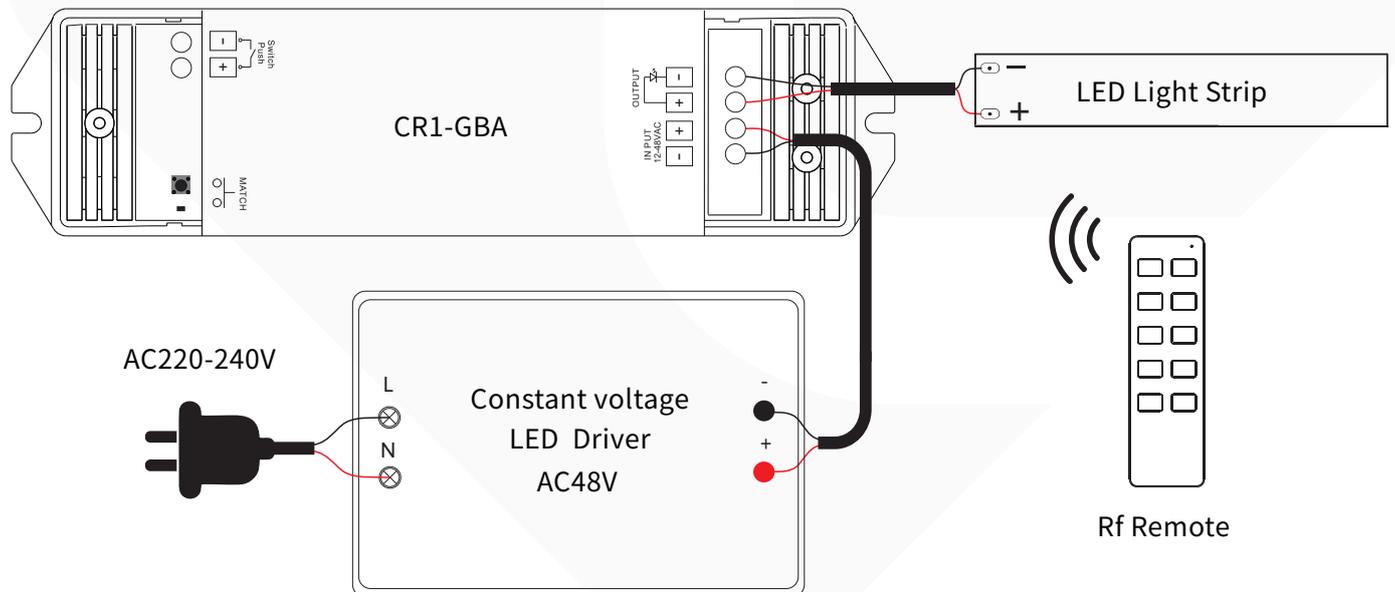
[Product Solutions]

· 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]

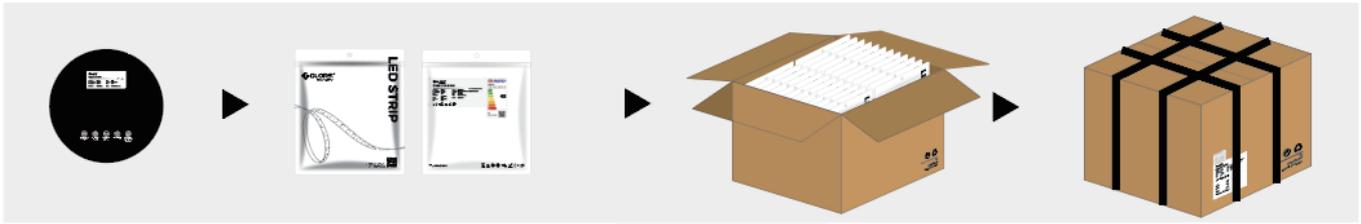
· Wiring diagram



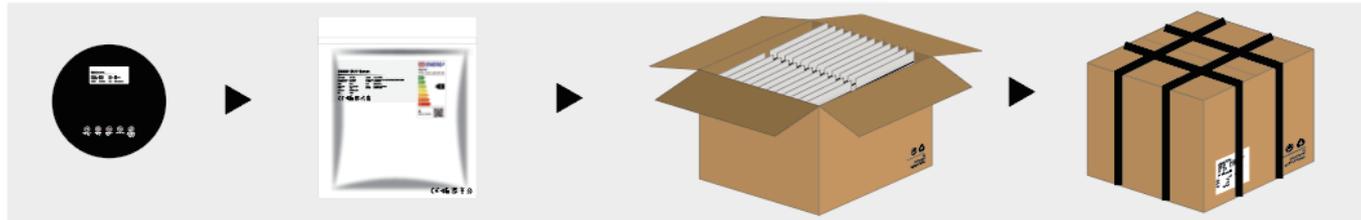
Note: This controller supports the Push function, and the 0-10V/Dall dimming function can be found in the EUCHIPS specification.

【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

Remark: data with 10% tolerance

· 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

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 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).
 - 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.
- * When using dimmer and dimming power supplies like Triac, etc, conduct compatibility tests on the product, dimmers and power supplies to ensure full compatibility. If any issues arise, contact COLORS for technical support.