CLASSIC Series Specification
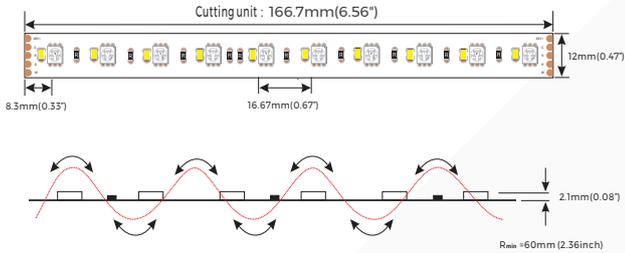
D560RGBW
48V-12mm

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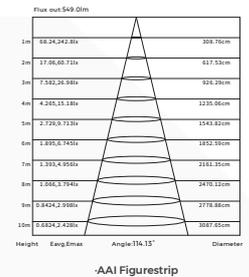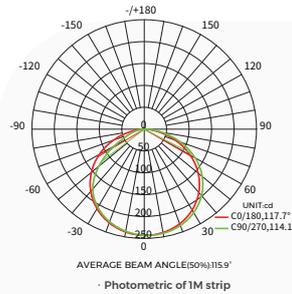UL E498657 UKCA CE RoHS Reach

【General description】

· RGBW colorful strip
· Widely adapted to various controllers
· High quality FPC, brand 3M tape
· 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

Cutting unit : 166.7mm(6.56")
12mm(0.47")
8.3mm(0.33")
16.67mm(0.67")
2.1mm(0.08")
Rmin =60mm (2.36inch)

【Dimension】

Input voltage: DC48V

CRI: /

Max.power: 19.2W(1m)

Power range: 15.1~19.2W(1m)

Rated current: 0.35A(1m) 5.25A(15m)

Typical Power: 16.8W(1m) 252W(15m)

IP: IP20/IP65/IP67

On-off times: 10000（test times）

Warranty: 5 years indoor / 3 years outdoor

Max.length: 15000mm(49.2')
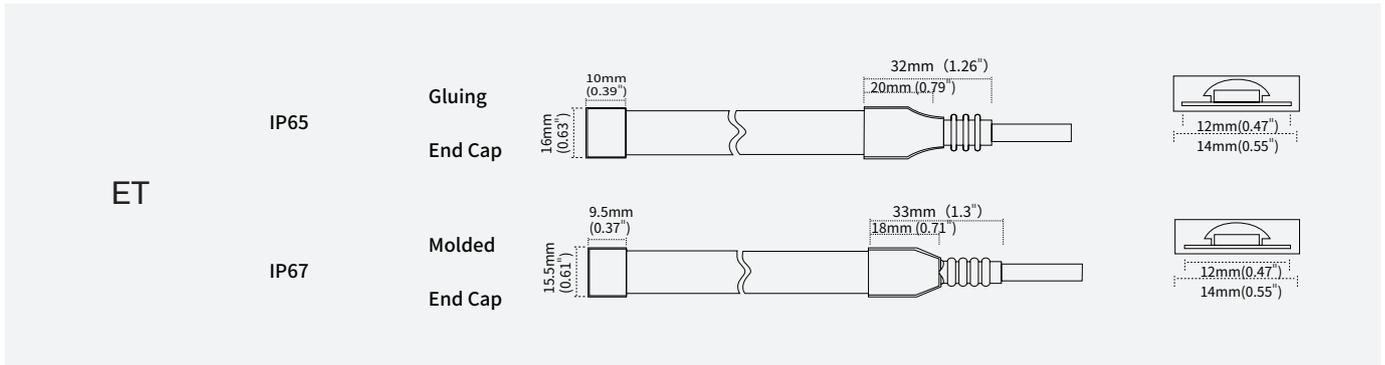
Cutting unit: 20leds/166.7mm(6.56")

LED pitch: 16.67m(0.66")

Min. bend diameter: Φ60mm(2.36")

Mounting: 3M tape

Copper foil: 3oz

UNIT:cd
C0/180,117.7°
C90/270,114.1°
AVERAGE BEAM ANGLE(50%):115.9°
· Photometric of 1M strip

Flus out:549.0lm
| Height | Eavg,Emax | Angle:114.13° | Diameter |
1m 68.24,242.8lx 308.76cm
2m 17.06,60.73lx 617.53cm
3m 7.582,26.98lx 926.29cm
4m 4.265,15.18lx 1235.06cm
5m 2.729,9.713lx 1543.82cm
6m 1.895,6.745lx 1852.59cm
7m 1.393,4.956lx 2161.35cm
8m 1.066,3.794lx 2470.12cm
9m 0.8424,2.998lx 2778.88cm
0.6824,2.428lx 3087.65cm

·AAI Figurestrip

【Photo-electric Parameters】

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
/	RGBSW	R:620-625nm G:520-525nm+2700K B:455-460nm	770	234	46	/
/	RGBWW	R:620-625nm G:520-525nm+3000K B:455-460nm	770	234	46	/
/	RGBNW	R:620-625nm G:520-525nm+4000K B:455-460nm	750	228	45	/
/	RGBW	R:620-625nm G:520-525nm+6000K B:455-460nm	800	243	48	/

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 15m in only for reference.

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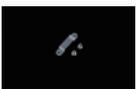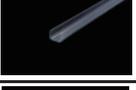
【IP process information】

ET	**IP65**	Gluing End Cap	10mm (0.39") · 16mm (0.63") · 32mm (1.26") · 20mm (0.79") — 12mm (0.47") / 14mm (0.55")
	IP67	Molded End Cap	9.5mm (0.37") · 15.5mm (0.61") · 33mm (1.3") · 18mm (0.71") — 12mm (0.47") / 14mm (0.55")

【Electronic & output data】

IP Process	Picture	Picture description	Size	optional CCT/color for finished product	lumen output rate
NO	NO/IP20	No proof	12mm*2.1mm	RGB+(2700K/3000K/4000K/6000K)	100%
NA	NANO/IP65	Nano-proof	12mm*2.1mm	RGB+(2700K/3000K/4000K/6000K)	98%
ET	ET/IP67	Extrusion tube	14mm*4.8mm	RGB+(2700K/3000K/4000K/6000K)	88%

【Product Solutions】

· **Connector Accessories**

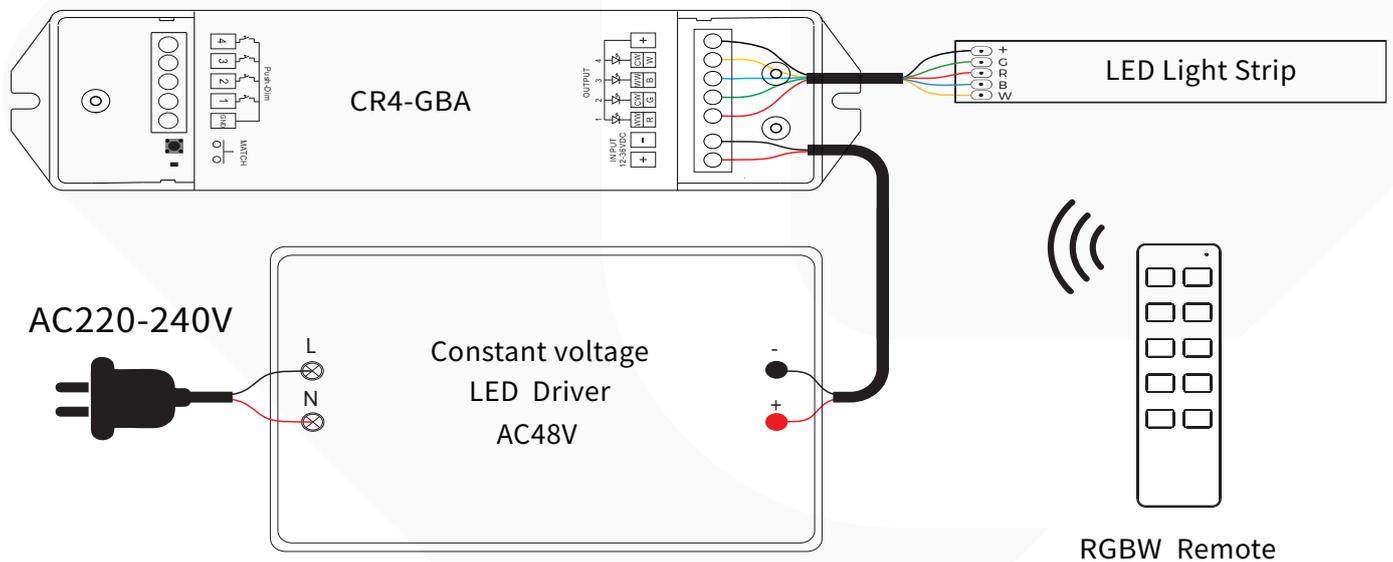| Name	Picture	Code	coding	description
Fixed Clip		94-02-00-0004	FSW12SA	Silicone clip, screw: PA 3*8mm, suitable for 12mm FPC,EF/ET strip
Silicone Plug Kit		94-02-00-0048	DT12EA-A	Silicone plug kit, suitable for 12mm board width, ET/EF series silicone extrusion light strip
Silicone stopper kit		94-02-00-0049	DW12EA-A	Silicone tail plug kit, suitable for 12mm board width, ET/EF series silicone extrusion light strip
Mounting groove		94-02-00-0026	CPT12EA-16100100	Transparent PVC mounting groove,suitable for 12mm FPC,silicone extruded EF/ET strip
Stopper glue		94-16-03010001	AS-PG-0003	Silicone gel,suitable for ET/EF/EG/ERG waterproof LED strip
Connector for FPC and FPC		81-01-000002-000048	CBB512-NOTA	12MM-5P solder-free connector (board-to board)\ suitable for bare board 12mm width strip light
Connector for wire and FPC		81-01-000002-000049	CXB512-NOTA	12MM-5P solderless connector(wire to board)\ Compatible with 22AWG wire\22#(4A)\Applicable to bare board 12mm width lamp strip

【Product Solutions】

· Controller & Power Supply

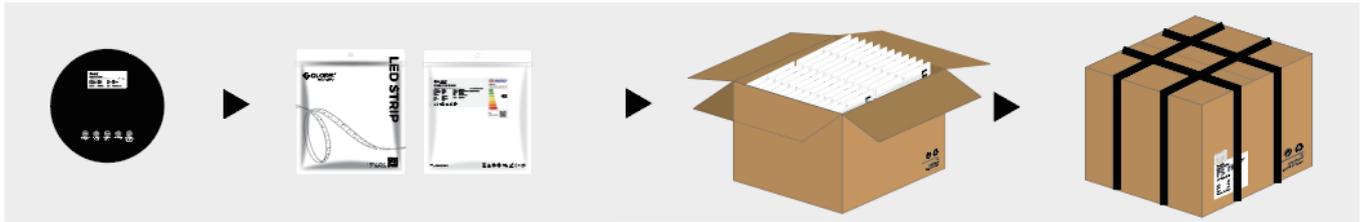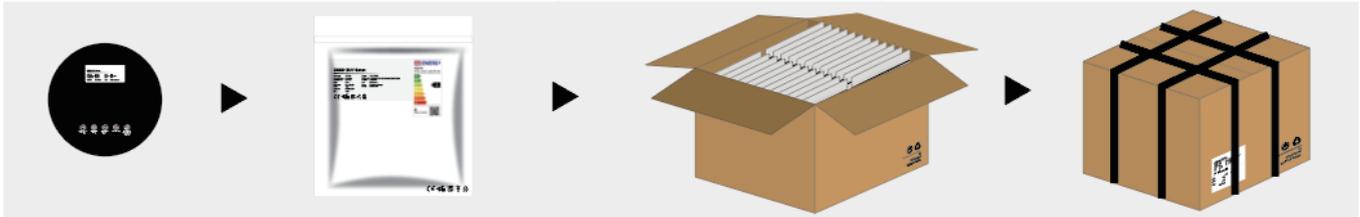| Product Image	Product Name	Product number	Order Code	Product Specifications	Applicable Products
	RGBW LED Strip Controller	CR4-GBA	402-01-000000-00004	Input voltage：12-48VDC Max load current：5A*4CH,Max 20A Max load power：240W/480W @12V/24V 20W/960W@36V/48V) Operating temperature：-30℃-55℃ Product Size:L175*W45*H27(mm)	RGBW light strip (Use with CK4-GBA)
	RGBW Remote	CK4-GBA	402-02-000000-00003	Operating Voltage：3VDC Working frequency：2.4GHz Remote control distance：30m Operating temperature：-30℃-55℃ Product Size:L107*W58.5*H9(mm)	RGBW light strip (Use with CR3-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

CR4-GBA

LED Light Strip

AC220-240V

Constant voltage
LED Driver
AC48V

L
N
-
+

RGBW Remote

【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*12*2.1	15	450	0.360	10.797	12.417	50*29*29
NA	15000*12*2.1	15	450	0.369	11.067	12.727	50*29*29
ET	15000*14*4.8	15	150	1.680	16.799	19.319	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*12*2.1	50	650	1.20	15.6	17.94	41*41*26
NA	50000*12*2.1	50	650	1.23	15.99	18.38	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℃~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.

* 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.