



TGR-UHB SERIES ULTRAHIGH BRIGHTNESS STRIP



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CCT Available



Features

- Super high luminous flux
- Multiple options can meet various application
- CRI/TM-30-15: CR1>90 / (Rf>90-Rg>98, R9>65)
- Warranty: 5year
- Waterproof: Non-waterproof (N)
- **Auxiliary heat dissipation: required in channel(extrusion) under conventional power Ta(°C): -20°C—50°C** Mounting:
- double-side thermal conductive adhesive tape or 9080H 3M self adhesive tape
- Support PWM, 0-10V, DALI and DMX dimming;

TM-30

CRI:90+

CCT	Rf	Rg	SDCM
2550-2850K	90	99	
2800-3100K	91	98	
3900-4200K	91	100	
4600-5100K	91	100	
6300-6800K	92	99	

Optical & Electrical Parameters

CRI:90+

TGR-UHB-28350-80-24				
Voltage	CCT/Wavelength	LM/m	LM/W	W/m
24V DC	2100-2300K	1944	135	14.4
	2400-2600K	2016	140	
	2550-2850K	2145	149	
	2800-3100K	2160	150	
	3300-3500K	2304	160	
	3900-4200K	2304	160	
	4600-5100K	2275	158	
6300-6800K	2290	159		

TGR-UHB-28350-160-24				
Voltage	CCT/Wavelength	LM/m	LM/W	W/m
24V DC	2100-2300K	3264	136	24.0
	2400-2600K	3408	142	
	2550-2850K	3576	149	
	2800-3100K	3648	152	
	3300-3500K	3840	160	
	3900-4200K	3840	160	
	4600-5100K	3816	159	
6300-6800K	3816	159		

TGR-UHB SERIES ULTRAHIGH BRIGHTNESS STRIP

TGR-UHB-28350-192-24				
Voltage	CCT/Wavelength	LM/m	LM/W	W/m
24V DC	2100-2300K	3946	137	28.8
	2400-2600K	3946	137	
	2550-2850K	4320	150	
	2800-3100K	4378	152	
	3300-3500K	4550	158	
	3900-4200K	4608	160	
	4600-5100K	4464	155	
	6300-6800K	4579	159	

TGR-UHB-28350-240-24				
Voltage	CCT/Wavelength	LM/m	LM/W	W/m
24V DC	2100-2300K	4896	136	36.0
	2400-2600K	5040	140	
	2550-2850K	5112	142	
	2800-3100K	5436	151	
	3300-3500K	5688	158	
	3900-4200K	5724	159	
	4600-5100K	5652	157	
	6300-6800K	5688	158	

TGR-UHB-28350-288-24				
Voltage	CCT/Wavelength	LM/m	LM/W	W/m
24V DC	2100-2300K	5918	137	43.2
	2400-2600K	6134	142	
	2550-2850K	6523	151	
	2800-3100K	6566	152	
	3300-3500K	6955	161	
	3900-4200K	6955	161	
	4600-5100K	6912	160	
	6300-6800K	6826	158	

Other Parameters

Model No.	LED QTY (pcs/m)	Min Cuttable Length	No Brightness Difference MAX	UL Max Run	Working Temperature	Storage Temperature
TGR-UHB-28350-80-24	80	100mm	4.0m	5.5m	-20~+60°C	-20~+70°C
TGR-UHB-28350-160-24	160	50mm	3.0m	3.0m		
TGR-UHB-28350-192-24	192	41.7mm	2.5m	2.5m		
TGR-UHB-28350-240-24	240	33.3mm	3.0m	2.0m		
TGR-UHB-28350-288-24	288	27.8mm	2.5m	1.5m		

NOTE:


- The above data were measured under lab conditions and actual real world data may be slightly different. We would update data without further notice.
- The luminous flux is tested while the corresponding-color products were lightened.
- UL max run refers to operating length at UL class II @100W.24V.
- Luminous flux values were measured accordance to IES LM-80-08. LED chips with range tolerance of +/- 10%.
- Each maximum-run requires a dedicated power feed from the driver. Do not extend exceed the recommended maximum run length. Max run may exceed Class 2 limits.
- Actual wattage may be different from the calculated wattage due to voltage drop while using.
- Actual efficacy value is determined by the specific LED driver (power supply). An estimated efficacy value can be calculated as follows: Luminous intensity divided by average power consumption.
- Do not install products in the conditions that exceed the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, luminous intensity output, and/or adversely impact color consistency.
- Operating temperature was measured under the minimum and maximum ambient temperature environment.
- Cutting segment are marked on the profile below.

Performance

- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Tiger Power's TUV Innovation Lab.

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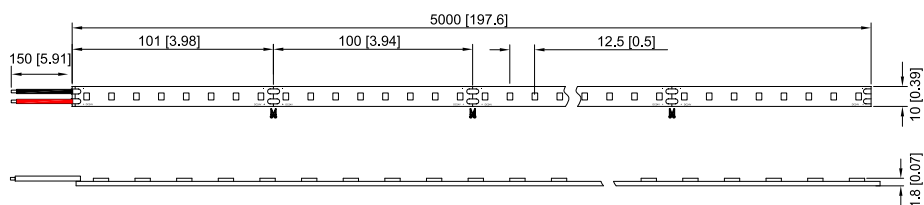
Compliance & Regulatory Approvals

	CE LVD	Standard: EN 60598-2-21: 2015; EN 60598-1: 2015; EN 62471: 2008; EN 62493:2015; EN 62031: 2015+A1: 2013+A2: 2015
	CE EMC	Standard: EN IEC 55015: 2019; EN IEC 61000-3-2: 2019; EN 61000-3-3:2013+A1: 2019;EN 61547: 2009
	CB	Standard: IEC 62031:2018
	UL LISTED	Standard: UL 2108 E354137-Low-voltage Lighting Systems, Power Units, Luminaires and Fittings
	RoHS	Standard: IEC62321

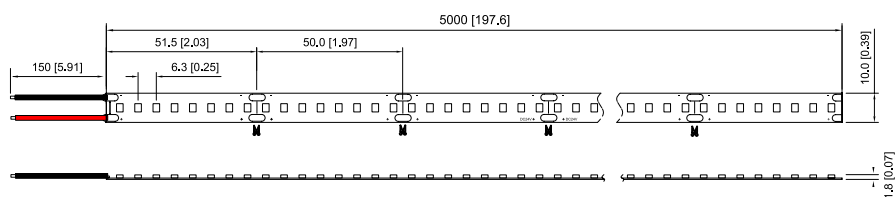
Profile Drawings

Unit: mm [inch]

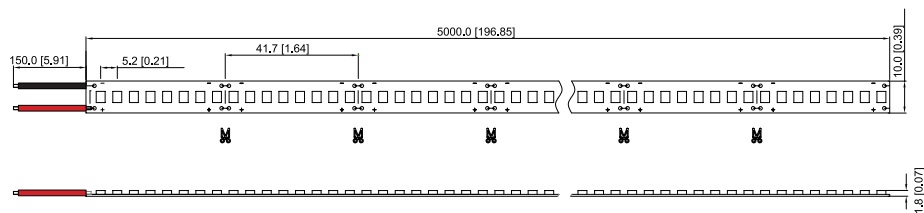
TGR-UHB-28350-80-24



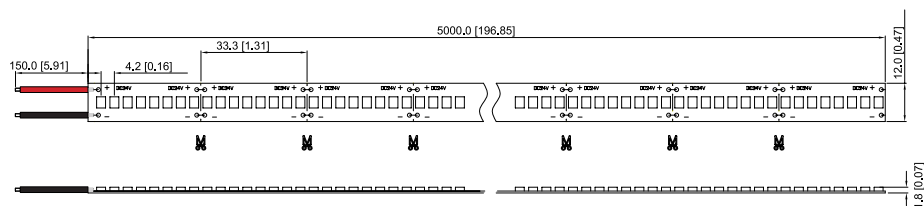
TGR-UHB-28350-160-24



TGR-UHB-28350-192-24

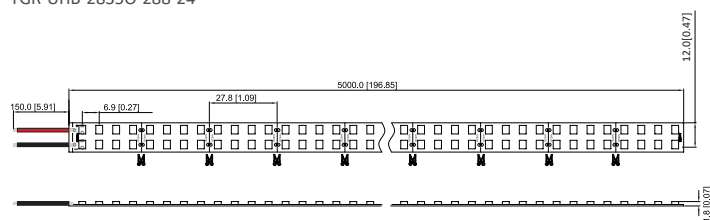


TGR-UHB-28350-240-24



TGR-UHB SERIES ULTRAHIGH BRIGHTNESS STRIP

TGR-UHB-28350-288-24



Note:

- For LED quantity less than 160leds/m with standard power, we recommend to use 20AWG parallel wire/sheathed cable with wire length less than 20cm, user need to reduce the max run when the wire length more than 20cm.
- For LED quantity more than 160leds/m with standard power, we recommend to use 18AWG parallel wire/sheathed cable in single feed, or 20AWG parallel wire or sheathed cable in both ends with wire length less than 20cm. Users need to reduce the max run properly when the wire length more than 20cm.
- Above conditions are only applicable to products with the PCB width of 10mm or more, for other width needs to be evaluated separately.
- Dimension tolerance:length±6mm[0.24inch]; width±0.2mm[0.008inch]; height±0.2mm[0.008inch]

Packaging information

Model No.	Product Size L*W (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight (kg)	Gross Weight (kg)
TGR-UHB-28350-80-24	5000*10	550*400*340	5	100	8.06 (1±10%)	12.69 (1±10%)
TGR-UHB-28350-160-24	5000*10	550*400*340	5	100	8.56 (1±10%)	13.19 (1±10%)
TGR-UHB-28350-192-24	5000*10	550*400*340	5	100	8.56 (1±10%)	13.19 (1±10%)
TGR-UHB-28350-240-24	5000*12	550*400*340	5	80	9.95 (1±10%)	13.55 (1±10%)
TGR-UHB-28350-288-24	5000*12	550*400*340	5	80	9.95 (1±10%)	13.55 (1±10%)

NOTE:

- The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.
- **The gross weights of all above model are less than volume weight, the volume weight is14.96kg.**

Note: for more info about waterproof process, please refer to the waterproof instruction.

Recommended power supply upon working length

TGR-UHB-28350-80-24	Operating Length (m)				
Parameters	0.5	1.5	2	2.5	3.5
Total Power (W)	15.12	41.04	55.68	67.20	89.04

TGR-UHB-28350-160-24	Operating Length (m)				
Parameters	1	2	3	4	5
Total Power (W)	36.00	70.08	97.44	118.08	132.48

TGR-UHB-28350-192-24	Operating Length (m)			
Parameters	1	2	2.5	3
Total Power (W)	43.68	82.32	98.16	112.56