

## Product Specification

### SMD LV Strip PRO 2835 48V 168 LEDs/M Tunable White

WW-FLS102T23W-S168X-48(WCP)-2500-XR-ME-TR  
&  
WW-FLS102T23W-S168X-48(WCP)-2500-XR-ME-TR-EP

Apply to ERP Regulation (EU) 2019/2020



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
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<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• High quality FPC, authentic 3M tape;</li> <li>• Self-encapsulated design 2835 LED;</li> <li>• Light source lifetime:50K hours(L70);</li> <li>• Min. Bending Diameter: Φ60mm</li> <li>• Max. Run length(M): 25m</li> <li>• Meet EU(2019/2020) ErP Regulation</li> <li>• Tunable White from 2700-6000K</li> </ul>	
<p><b>Technology info</b></p> <ul style="list-style-type: none"> <li>• Lighting Technology: LED</li> <li>• DLS or NDLS: NDLS</li> <li>• MLS or NMLS: NMLS</li> </ul>	<p><b>Certification Standards</b></p> <ul style="list-style-type: none"> <li>• EN55015:2019</li> <li>• EN61547:2009</li> <li>• EN60598-1:2015</li> <li>• EN60598-2-20:2015</li> <li>• EN62493:2015</li> <li>• EN62471:2008</li> </ul>

<b>Non-ErP Waterproof Type</b>	 <b>B 20</b>	 <b>R 67</b>
	Naked Strip	Silicone Extrusion
	5 Years Warranty	5 Years Warranty

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	Naked Strip	Silicone Extrusion
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WW-FLS102T23W-S168B-48(WCP)-2500-XR-ME-TR

Parameters

IP Grade	Model NO.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	LED Color Temp.(K) Wavelength(nm)*	3SDCM LED Color Temp.(K) Wavelength(nm)**	Typ. Luminous Flux LM/M(39.37in)	Rated voltage
B 20	WW-FLS102T23W-S168B-48(WCP)-2500-HR-ME-TR	80	82	96	7.2	7.92	Warm White	2600-2900K	2650-2770K	830	DC 48V
					7.2	7.92	Standard White	5700-6500K	5800-6250K	890	
	WW-FLS102T23W-S168B-48(WCP)-2500-UR-ME-TR	90	96	100	7.2	7.92	Warm White	2600-2900K	2650-2770K	720	DC 48V
					7.2	7.92	Standard White	5700-6500K	5800-6250K	780	
R 67	WW-FLS102T23W-S168R-48(WCP)-2500-HR-ME-TR	80	82	96	7.2	7.92	Warm White	2600-2900K	2650-2770K	820	DC 48V
					7.2	7.92	Standard White	5700-6500K	5800-6250K	870	
	WW-FLS102T23W-S168R-48(WCP)-2500-UR-ME-TR	90	96	100	7.2	7.92	Warm White	2600-2900K	2650-2770K	710	DC 48V
					7.2	7.92	Standard White	5700-6500K	5800-6250K	760	

Remarks:

- \* The above color temperature is the color temperature of LED source.
- \*\*Indicates SDCM<3 model is available, part number will add the suffix "-3S".
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

Test condition of above technical data:

- Surrounding temperature: 26°C.
- Test while turning on.
- The above technical data, including typical power are based on the test of 0.5m.

**WW-FLS102T23W-W168B-48(WCP)-2500-XR-ME-TR-EP**

**Parameters For ErP**

IP Grade	Model NO.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	LED Color Temp.(K) Wavelength(nm)*	Luminous Flux LM/M(39.37')	Efficiency (Lm/W)	Energy Efficiency Class	Rated voltage
	WW-FLS102T23W-S168B-48(WCP)-2500-HR-ME-TR-EP	80	82	96	7.2	7.92	Warm White	2700K	810	113	E	DC 48V
					7.2	7.92	Standard White	6000K	870	121	E	
<b>B 20</b>	WW-FLS102T23W-S168B-48(WCP)-2500-UR-ME-TR-EP	90	96	100	7.2	7.92	Warm White	2700K	700	97	F	DC 48V
					7.2	7.92	Standard White	6000K	760	106	F	
<b>R 67</b>	WW-FLS102T23W-S168R-48(WCP)-2500-HR-ME-TR-EP	80	82	96	7.2	7.92	Warm White	2700K	790	110	F	DC 48V
					7.2	7.92	Standard White	6000K	830	115	E	
<b>R 67</b>	WW-FLS102T23W-S168R-48(WCP)-2500-UR-ME-TR-EP	90	96	100	7.2	7.92	Warm White	2700K	680	94	F	DC 48V
					7.2	7.92	Standard White	6000K	740	103	F	

Remarks:

- \*The above color temperature is the color temperature of LED source.
- While SDCM<3 model is available, part number will add the suffix "-3S".

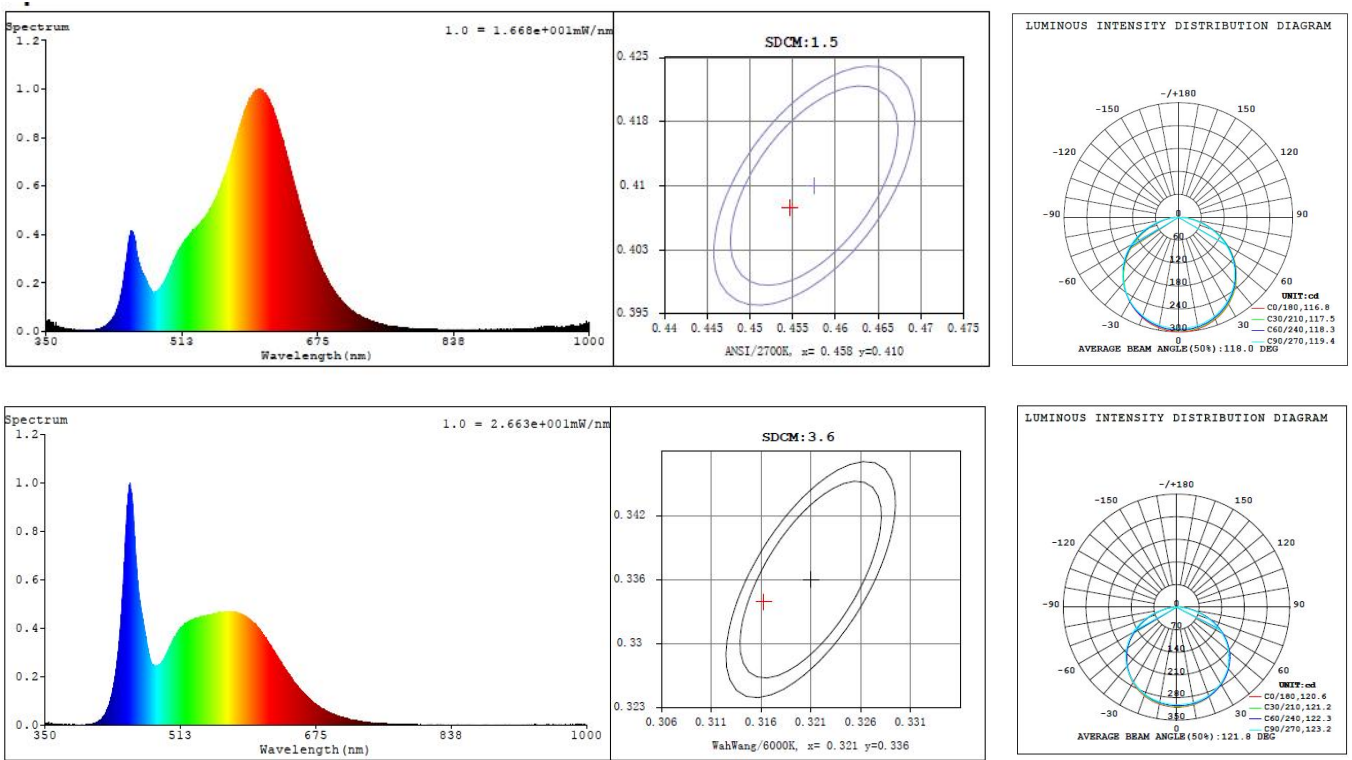
Test condition of above technical data:

- Surrounding temperature: 26 °C.
- Test after 10 mins turned on.

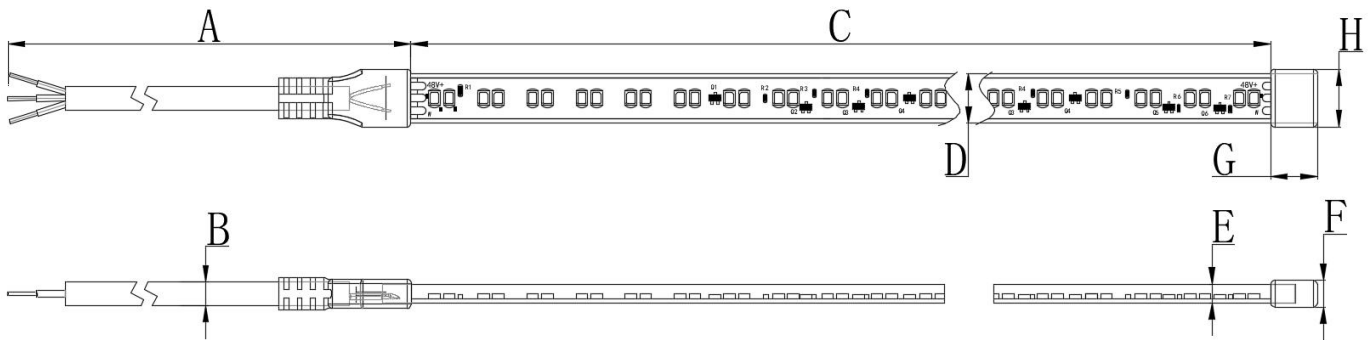
ErP Note:

- According to the new ErP 2019/2020 regulation for each 0.5m or nearest 0.5m strip, the following requirements must be met:
- Measured power ≤ Pon +5% ;
- Measured lumen ≥ Useful luminous flux -10%;
- Measured CRI ≥ Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.

Optical Test Diagram

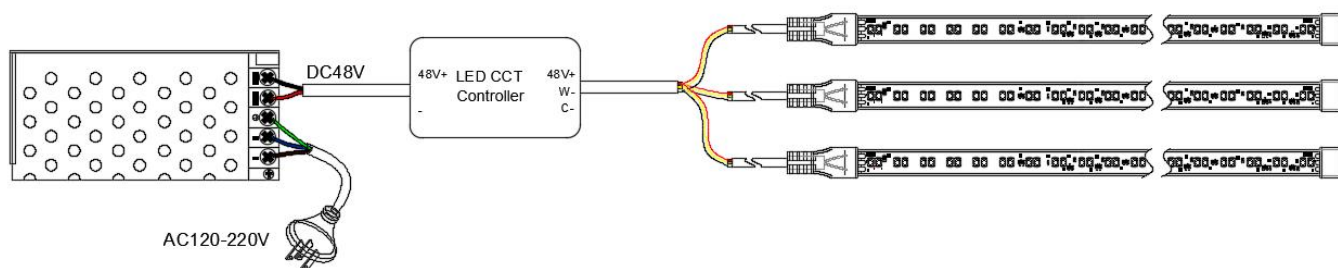


Dimension Drawing





IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Cap thickness	G End cap length	H Cap width
B 20	300±10mm	6.0±0.2mm	25000±200mm	10±0.5mm	1.2±0.5mm	/	/	/
	11.81±0.39in	0.236±0.008in	984.25±7.87in	0.32±0.02in	0.047±0.02in	/	/	/
R 67	315±10mm	6.0±0.2mm	25020±200mm	12±0.5mm	4.5±0.5mm	6.5±1mm	12±0.5mm	14±0.5mm
	12.4±0.39in	0.236±0.008in	985.04±7.87in	0.39±0.02in	0.177±0.02in	0.26±0.039in	0.47±0.02in	0.55±0.02in

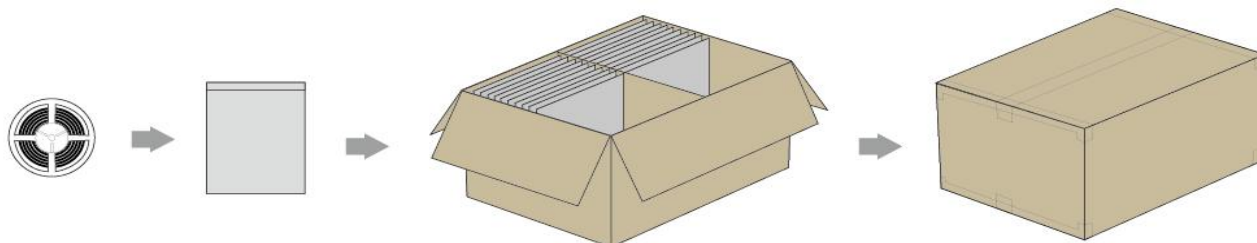
## Circuit Diagram



## Standard Accessories

IP Grade	Category	Description	Picture	Part No.	Application
B 20	/	/	/	/	/
B 20	/	/	/	/	/
R 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	10mm Type R Waterproof strip
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	

## Packaging Diagram













## Packaging Information

IP Grade	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
<b>B 20</b>	380×350×0.14mm	/	/	330×320×330mm	17	7.65KG ±10%	12.25KG ±10%	0.0348m³
	14.96×13.78×0.0055in	/	/	13.0×12.6×13.0in	17	16.87Lbs ±10%	27.0Lbs ±10%	1.23ft³
<b>R 67</b>	/	345×330×61mm	1	362×265×350mm	4	6.4KG ±10%	9.86KG ±10%	0.034m³
	/	13.58×12.99×2.4in	1	14.25×10.43×13.78in	4	14.11Lbs ±10%	21.74Lbs ±10%	1.19ft³


**Remarks :**


Please contact our sales manager for customized package (color box, blister etc.)


 **Cautions**

IP20	IP54	IP65	IP67	IP68
 Do not press the surface of LED	 Pay attention to high temperature environment	 Do not use in strong water waves environment	 Resist strong water waves impact	 Can apply to underwater do not deeper than 1m
 Pay attention to damp-proof and dustproof	 Do not apply to rainy environment	 Can be applied to rainy environment	 Do not apply to underwater environment for a long time	 No direct sunlight

 Do not tie a knot	 Do not winding	 Do not twist	 Do not cut when it is working	 Recommended the continuous working time do not exceed 12 hours daily	 Operating temperature -20°C~+45°C (-4°F~+113°F)	 Storage temperature 0°C~+60°C (32°F~+140°F)	 Operated by professionals
 Pay attention to the application environment	 IP Level will change after cutting	 Do not pull and crash	 Connected to power supply every 25 meters	 Power supply must be connected to ground(GND)	 The minimum bending diameter > 60mm	 Power supply retain > 20%	 Note the positive and negative poles

 For cutting LED strip operation, it is necessary to use the standard accessories provided by Dilux (e.g. DC wire, end-cap, front-cap, adhesive, etc.), and according to the correct cutting and connecting method for the installation.

 For avoiding LED get vulcanized, LED strip should be installed in the environment where does not has oil and corrosive substances. Such as these substances which contain Sulphur, Bromine, Iodine and Chlorine. Some other chemical elements which will cause Aromatic hydrocarbons releasing(such as: methylbenzene, xylene, methyl acetoacetate Ethyl acetate etc.),The environment in which includes strong acid and strong base.

 During the warranty period, only defective products are acceptable to be replaced by the factory. Factory is not responsible for other expenses because of replacement, such as transportation fee, installation fee, etc..

**\*\* If you do not follow the above "Cautions" to operate and result in damaging the product, the factory will not accept maintenance and return.**  
**\*\*The right of final interpretation is owned by Dilux.**