

# Product Specification

## SMD LV Strip

### PRO 5050RGB+2835W 24V 120LEDs/M

### Multi color RGB+W Series

WW-FLS103T52FX120X-24(WCP)-XR

&

WW-FLS103T52FX120X-24(WCP)-XR-EP

Apply to ERP Regulation (EU) 2019/2020



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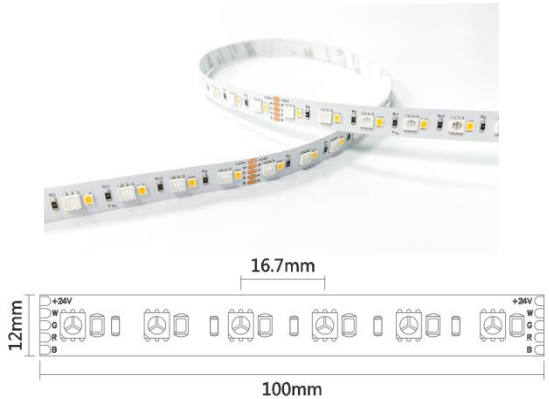
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<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• High quality FPC, authentic 3M tape;</li> <li>• Self-encapsulated design 5050RGB+2835W LED;</li> <li>• Light source lifetime:36K hours(L70);</li> <li>• Meet (EU)2019/2020 ErP regulations.</li> <li>• Min. Bending Diameter: Φ60mm</li> <li>• Max. length(M): 5M</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>• EN61547:2023</li> <li>• EN60598-1:2021</li> <li>• EN60598-2-21</li> <li>• EN62493:2015</li> <li>• EN62471:2008</li> </ul>

<b>Non-ErP Waterproof Type</b>	 <b>E 20</b>	 <b>F 65</b>
	Naked Strip	Silicone Tube
	3 Years Warranty	3 Years Warranty

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	Naked Strip	Silicone Tube
	3 Years Warranty	3 Years Warranty

WW-FLS103T52FX120X-24(WCP)-XR

Parameters for non-ErP

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
E 20	WW-FLS103T52FW120B-24(WCP)-HR	80	82	96	16.32	19.6	RGB+ Warm White	RGB+ 2300-2600K	/	1080	DC 24V
	RGB+ Warm White						RGB+ 2600-2900K	/	1110		
	RGB+ Warm White						RGB+ 2900-3200K	/	1110		
	RGB+ Natural White						RGB+ 3700-4250K	/	1130		
	RGB+ Standard White						RGB+ 5700-6500K	/	1140		
	WW-FLS103T52FW120B-24(WCP)-UR	90	90	100	16.32	19.6	RGB+ Warm White	RGB+ 2300-2600K	/	1000	DC 24V
	RGB+ Warm White						RGB+ 2600-2900K	/	1030		
	RGB+ Warm White						RGB+ 2900-3200K	/	1050		
	RGB+ Natural White						RGB+ 3700-4250K	/	1060		
	RGB+ Standard White						RGB+ 5700-6500K	/	1070		
F 65	WW-FLS103T52FW120F-24(WCP)-HR	80	82	96	16.32	19.6	RGB+ Warm White	RGB+ 2300-2600K	/	1020	DC 24V
	RGB+ Warm White						RGB+ 2600-2900K	/	1050		
	RGB+ Warm White						RGB+ 2900-3200K	/	1050		
	RGB+ Natural White						RGB+ 3700-4250K	/	1070		
	RGB+ Standard White						RGB+ 5700-6500K	/	1080		
	WW-FLS103T52FW120F-24(WCP)-UR	90	90	100	16.32	19.6	RGB+ Warm White	RGB+ 2300-2600K	/	940	DC 24V
	RGB+ Warm White						RGB+ 2600-2900K	/	970		
	RGB+ Warm White						RGB+ 2900-3200K	/	990		
	RGB+ Natural White						RGB+ 3700-4250K	/	1000		
	RGB+ Standard White						RGB+ 5700-6500K	/	1010		

Remarks:

- \* The above color temperature is the color temperature of LED source.
- The typ. Luminous flux tolerance range is ±20% (subject to the manufacturer's instrument test).

Test condition of above technical data:

- Surrounding temperature: 26℃.
- Test while turning on.

WW-FLS103T52FX120X-24(WCP)-XR-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')	Lumen/watt	Energy Efficiency class	Rated voltage
E 20	WW-FLS103T52FX120B-24(WCP)-HR-EP	/	/	/	4.08	4.89	RED	625-635nm	130	32	/	DC 24V
	WW-FLS103T52FX120B-24(WCP)-HR-EP	/	/	/	4.58	5.49	GREEN	515-525nm	410	90	/	
	WW-FLS103T52FX120B-24(WCP)-HR-EP	/	/	/	4.48	5.37	BLUE	465-475nm	80	18	/	
	WW-FLS103T52FW120B-24(WCP)-HR-EP	80	82	96	4.74	5.21	Warm White	2500K	460	97	F	
	WW-FLS103T52FW120B-24(WCP)-HR-EP						Warm White	2700K	490	103	F	
	WW-FLS103T52FW120B-24(WCP)-HR-EP						Warm White	3000K	500	105	F	
	WW-FLS103T52FN120B-24(WCP)-HR-EP						Natural White	4000K	520	110	F	
	WW-FLS103T52FS120B-24(WCP)-HR-EP	Standard White	6000K	520	110	F						
	WW-FLS103T52FX120B-24(WCP)-UR-EP	/	/	/	4.08	4.89	RED	625-635nm	130	32	/	DC 24V
	WW-FLS103T52FX120B-24(WCP)-UR-EP	/	/	/	4.58	5.49	GREEN	515-525nm	410	90	/	
	WW-FLS103T52FX120B-24(WCP)-UR-EP	/	/	/	4.48	5.37	BLUE	465-475nm	80	18	/	
	WW-FLS103T52FW120B-24(WCP)-UR-EP	90	90	100	4.74	5.21	Warm White	2500K	380	80	G	
	WW-FLS103T52FW120B-24(WCP)-UR-EP						Warm White	2700K	410	86	F	
	WW-FLS103T52FW120B-24(WCP)-UR-EP						Warm White	3000K	430	91	F	
WW-FLS103T52FN120B-24(WCP)-UR-EP	Natural White						4000K	440	93	F		
WW-FLS103T52FS120B-24(WCP)-UR-EP	Standard White	6000K	450	95	F							
E 65	WW-FLS103T52FX120F-24(WCP)-HR-EP	/	/	/	4.08	4.89	RED	625-635nm	120	29	/	DC 24V
	WW-FLS103T52FX120F-24(WCP)-HR-EP	/	/	/	4.58	5.49	GREEN	515-525nm	390	85	/	
	WW-FLS103T52FX120F-24(WCP)-HR-EP	/	/	/	4.48	5.37	BLUE	465-475nm	70	16	/	
	WW-FLS103T52FW120F-24(WCP)-HR-EP	80	82	96	4.74	5.21	Warm White	2500K	440	93	F	
	WW-FLS103T52FW120F-24(WCP)-HR-EP						Warm White	2700K	470	99	F	
	WW-FLS103T52FW120F-24(WCP)-HR-EP						Warm White	3000K	480	101	F	
	WW-FLS103T52FN120F-24(WCP)-HR-EP						Natural White	4000K	500	105	F	
	WW-FLS103T52FS120F-24(WCP)-HR-EP	Standard White	6000K	500	105	F						
	WW-FLS103T52FX120F-24(WCP)-UR-EP	/	/	/	4.08	4.89	RED	625-635nm	120	29	/	DC 24V
	WW-FLS103T52FX120F-24(WCP)-UR-EP	/	/	/	4.58	5.49	GREEN	515-525nm	390	85	/	
	WW-FLS103T52FX120F-24(WCP)-UR-EP	/	/	/	4.48	5.37	BLUE	465-475nm	70	16	/	
	WW-FLS103T52FW120F-24(WCP)-UR-EP	90	90	100	4.74	5.21	Warm White	2500K	360	76	G	
	WW-FLS103T52FW120F-24(WCP)-UR-EP						Warm White	2700K	390	82	G	
	WW-FLS103T52FW120F-24(WCP)-UR-EP						Warm White	3000K	410	86	F	
WW-FLS103T52FN120F-24(WCP)-UR-EP	Natural White						4000K	420	89	F		
WW-FLS103T52FS120F-24(WCP)-UR-EP	Standard White	6000K	430	91	F							

## Remarks:

- \*The above color temperature is the color temperature of LED source.

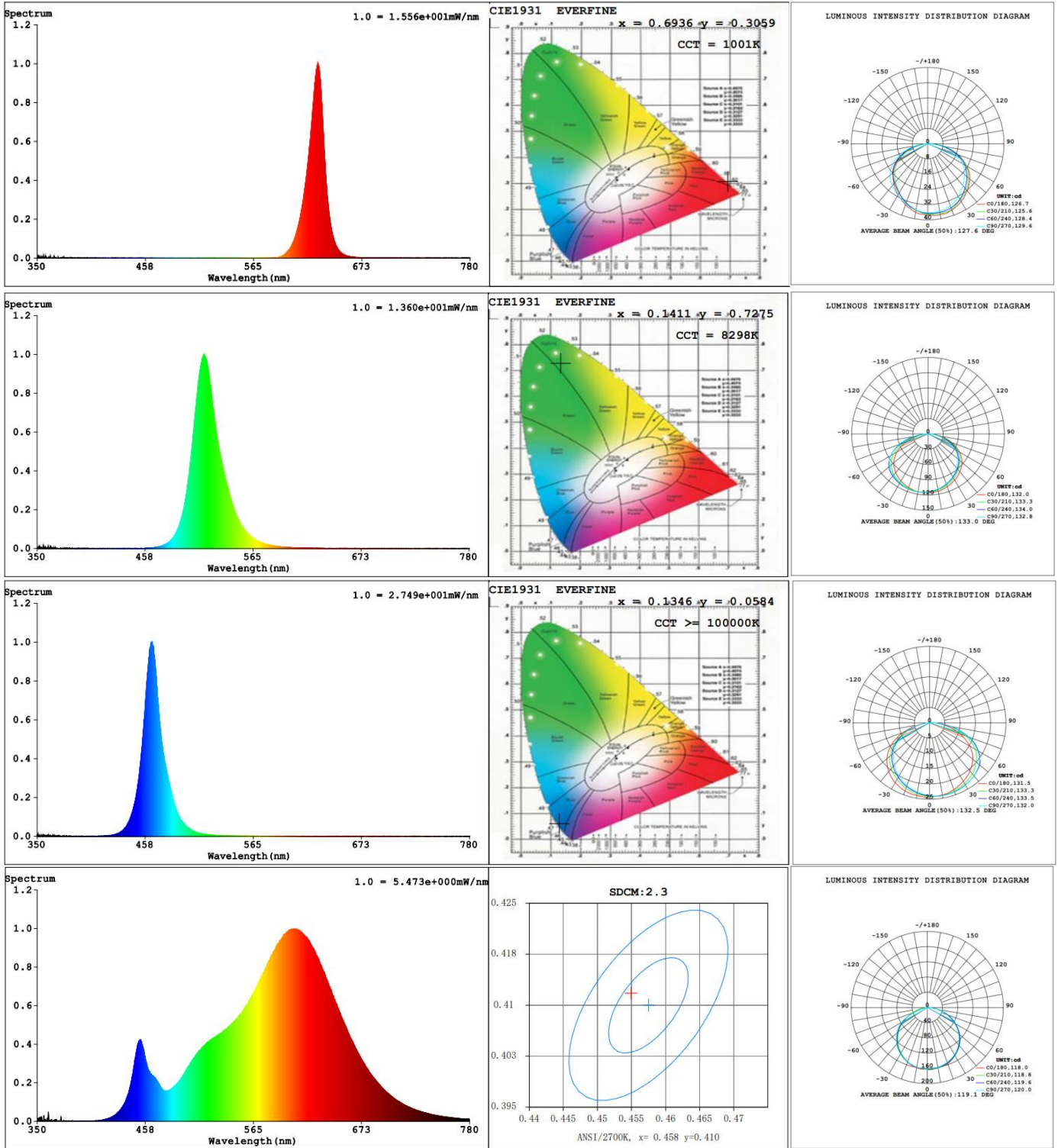
## Test condition of above technical data:

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

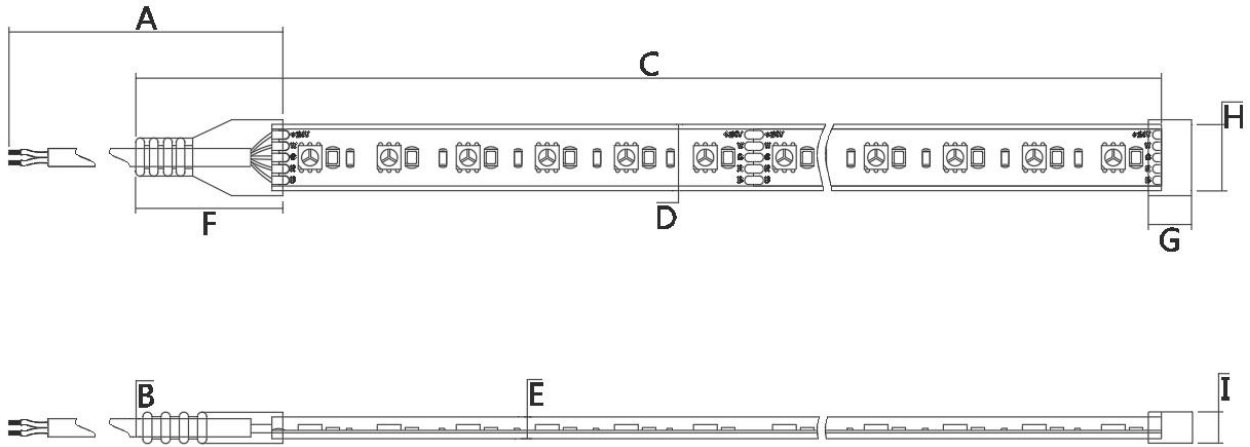
## ErP Note:

- 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  $\leq$  Pon +5% ;
- Measured lumen  $\geq$  Useful luminous flux -10%;
- Measured CRI  $\geq$  Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.
- The tolerance range of Power and Luminous Flux is  $\pm 20\%$  ( RGB Light ) (subject to the manufacturer's instrument test).

Optical Test Diagram



Dimension Drawing

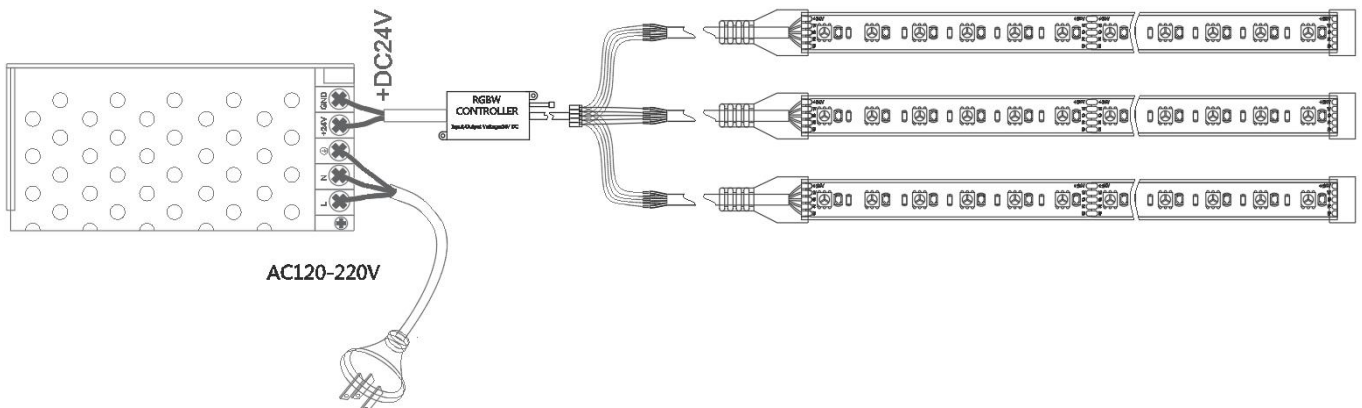


IP Grade	A Cable Length	B Strip length	C Cap width	D Distance of LEDs	E Cutting unit length	F cable diameter	G Cap thickness	H Strip thickness	I Strip width
B 20	300±10mm	Φ6±0.2mm	5000±50mm	12±0.5mm	2.1±0.5mm	/	/	/	/
	11.81±0.39in	0.24±0.01in	196.85±1.97in	0.47±0.02in	0.083±0.02in	/	/	/	/
F 65	300±10mm	Φ6±0.2mm	5020±50mm	14±0.5mm	4±0.2mm	22.5±0.5mm	10±0.5mm	16.5±0.5mm	6.0±0.5mm
	11.81±0.39in	0.24±0.01in	197.64±1.97in	0.55±0.02in	0.157±0.01in	0.89±0.02in	0.39±0.02in	0.65±0.02in	0.24±0.02in


Remarks:

- If you need further information, please contact our sales manager.

Circuit Diagram

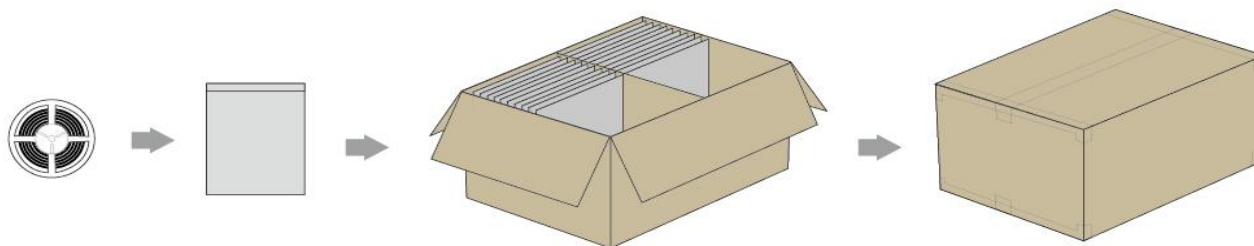


**Standard Accessories**

IP Grade	Category	Description	Picture	Part No.	Application
B 20	/	/	/	/	/
F 65	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip



## Packaging Diagram













## Packaging Information
















Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
E 20	250*270*0.14mm	/	/	440*400 *260mm	50	4.94KG ±10%	9.78KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	50	10.89Lbs ±10%	21.56Lbs±10%	1.62ft³
F 65	250*270*0.14mm	/	/	440*400 *260mm	36	8.48KG ±10%	13.63KG±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	36	18.70Lbs ±10%	30.05Lbs±10%	1.62ft³


**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	-20°C~+45°C (-4°F~+113°F)	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 5 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.**