

Product Specification

DC Flexible LED Strip

5050 3LEDs/unit Series

5050 Top LED 10mm FPC 060LEDs/M

WW-FLS102T50XW060X-12(WCP)-XR



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










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<p>Product Features</p> <ul style="list-style-type: none"> • High quality FPC, authentic 3M tape; • Self-encapsulated design 5050 LED; • Light source lifetime:50K hours(L70); • Min. Bending Diameter: Φ60mm • Max. length(M): 5M • LED SDCM≤6 	
<p>Technology info</p> <ul style="list-style-type: none"> • Lighting Technology: LED • DLS or NDLS: NDLS • MLS or NMLS: NMLS 	<p>Certification Standards</p> <ul style="list-style-type: none"> • EN55015:2019 • EN61547:2009 • EN60598-1:2015 • EN60598-2-20:2015 • EN62493:2015 • EN62471:2008

Waterproof Type	 B 20	 S 54	 K 54/65	 F 65	 R 67	 RW 67	 C 68	 E 67	 D 54
	Naked Strip	Silicone Dropping	Silicone Extrusion	Silicone Tube	Silicone Extrusion	Silicone Extrusion	PU Dropping +PVC Extrusion	PVC Extrusion	PU Dropping
	3 Years Warranty	3 Years Warranty	3 Years Warranty	3 Years Warranty	3 Years Warranty	3 Years Warranty	1 Years Warranty	2 Years Warranty	2 Years Warranty

WW-FLS102T50XW060X-12(WCP)-XR

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
E 20	WW-FLS102T50XW060B-12(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1105	DC 12V
							Warm White	2700K	2700K	1130	
							Warm White	3000K	3000K	1160	
							Natural White	4000K	4000K	1220	
							Standard White	6000K	/	1220	
	WW-FLS102T50XW060B-12(WCP)-UR	90	90	100	13.09	14.40	Warm White	2500K	/	900	DC 12V
							Warm White	2700K	2700K	930	
							Warm White	3000K	3000K	950	
							Natural White	4000K	4000K	1000	
							Standard White	6000K	/	1000	
D 54	WW-FLS102T50XW060D-12(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1050	DC 12V
							Warm White	2700K	2700K	1051	
							Warm White	3000K	3000K	1056	
							Natural White	4000K	4000K	1049	
							Standard White	6000K	/	964	
	WW-FLS102T50XW060D-12(WCP)-UR	90	90	100	13.09	14.40	Warm White	2500K	/	891	DC 12V
							Warm White	2700K	2700K	921	
							Warm White	3000K	3000K	903	
							Natural White	4000K	4000K	900	
							Standard White	6000K	/	890	
S 54	WW-FLS102T50XW060S-12(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1094	DC 12V
							Warm White	2700K	2700K	1107	
							Warm White	3000K	3000K	1114	
							Natural White	4000K	4000K	1122	
							Standard White	6000K	/	1061	
	WW-FLS102T50XW060S-12(WCP)-UR	90	90	100	13.09	14.40	Warm White	2500K	/	918	DC 12V
							Warm White	2700K	2700K	939	
							Warm White	3000K	3000K	941	
							Natural White	4000K	4000K	960	
							Standard White	6000K	/	920	
K 54	WW-FLS102T50XW060K-12(WCP)-HR-TT	80	82	96	13.09	14.40	Warm White	2500K	/	1061	DC 12V
							Warm White	2700K	2700K	1085	
							Warm White	3000K	3000K	1114	
							Natural White	4000K	4000K	1171	
							Standard White	6000K	/	1171	
	WW-FLS102T50XW060K-12(WCP)-UR-TT	90	90	100	13.09	14.40	Warm White	2500K	/	873	DC 12V
							Warm White	2700K	2700K	902	
							Warm White	3000K	3000K	922	
							Natural White	4000K	4000K	970	
							Standard White	6000K	/	970	
K 65	WW-FLS102T50XW060K-12(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1061	DC 12V
							Warm White	2700K	2700K	1085	
							Warm White	3000K	3000K	1114	
							Natural White	4000K	4000K	1171	
							Standard White	6000K	/	1171	
	WW-FLS102T50XW060K-12(WCP)-UR	90	90	100	13.09	14.40	Warm White	2500K	/	873	DC 12V
							Warm White	2700K	2700K	902	
							Warm White	3000K	3000K	922	
							Natural White	4000K	4000K	970	
							Standard White	6000K	/	970	

E 67	WW-FLS102T50XW060E-12(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	995	DC 12V
							Warm White	2700K	2700K	1017	
							Warm White	3000K	3000K	1044	
							Natural White	4000K	4000K	1098	
							Standard White	6000K	/	1098	
	WW-FLS102T50XW060E-12(WCP)-UR	90	90	100	13.09	14.40	Warm White	2500K	/	801	DC 12V
							Warm White	2700K	2700K	818	
							Warm White	3000K	3000K	846	
							Natural White	4000K	4000K	880	
							Standard White	6000K	/	900	
R 67	WW-FLS102T50XW060R-12(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1061	DC 12V
							Warm White	2700K	2700K	1096	
							Warm White	3000K	3000K	1102	
							Natural White	4000K	4000K	1171	
							Standard White	6000K	/	1147	
	WW-FLS102T50XW060R-12(WCP)-UR	90	90	100	13.09	14.40	Warm White	2500K	/	873	DC 12V
							Warm White	2700K	2700K	893	
							Warm White	3000K	3000K	893	
							Natural White	4000K	4000K	960	
							Standard White	6000K	/	970	
RW 67	WW-FLS102T50XW060R-12(WCP)-HR-W	80	82	96	13.09	14.40	Warm White	2500K	/	1061	DC 12V
							Warm White	2700K	2700K	1096	
							Warm White	3000K	3000K	1102	
							Natural White	4000K	4000K	1171	
							Standard White	6000K	/	1147	
	WW-FLS102T50XW060R-12(WCP)-UR-W	90	90	100	13.09	14.40	Warm White	2500K	/	873	DC 12V
							Warm White	2700K	2700K	893	
							Warm White	3000K	3000K	893	
							Natural White	4000K	4000K	960	
							Standard White	6000K	/	970	
C 68	WW-FLS102T50XW060C-12(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1006	DC 12V
							Warm White	2700K	2700K	994	
							Warm White	3000K	3000K	1021	
							Natural White	4000K	4000K	988	
							Standard White	6000K	/	915	
	WW-FLS102T50XW060C-12(WCP)-UR	90	90	100	13.09	14.40	Warm White	2500K	/	846	DC 12V
							Warm White	2700K	2700K	865	
							Warm White	3000K	3000K	865	
							Natural White	4000K	4000K	890	
							Standard White	6000K	/	840	
F 65	WW-FLS102T50XW060F-12(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1050	DC 12V
							Warm White	2700K	2700K	1074	
							Warm White	3000K	3000K	1102	
							Natural White	4000K	4000K	1171	
							Standard White	6000K	/	1171	
	WW-FLS102T50XW060F-12(WCP)-UR	90	90	100	13.09	14.40	Warm White	2500K	/	846	DC 12V
							Warm White	2700K	2700K	874	
							Warm White	3000K	3000K	893	
							Natural White	4000K	4000K	940	
							Standard White	6000K	/	940	

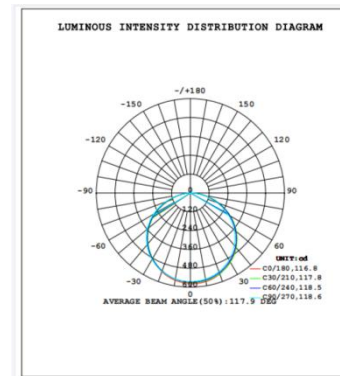
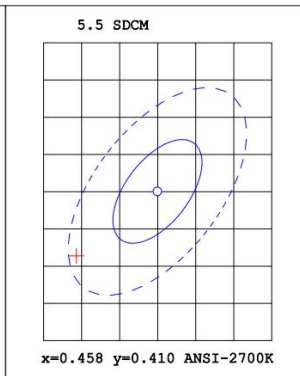
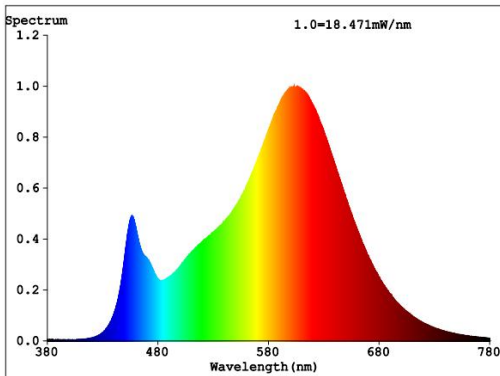
Remarks:

- *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 $\pm 10\%$ (subject to the manufacturer's instrument test).

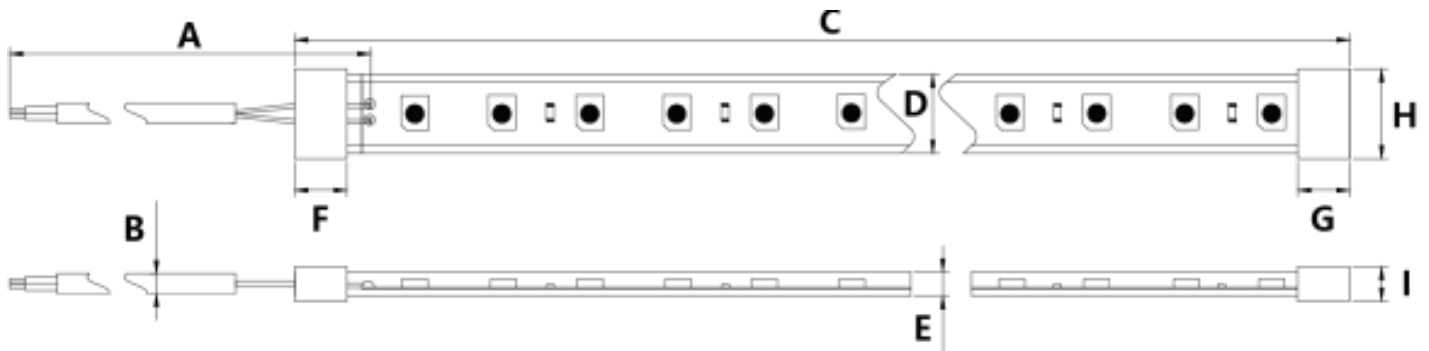
Test condition of above technical data:

- Surrounding temperature: 26°C.
- Test while turning on.

Optical Test Diagram



Dimension Drawing

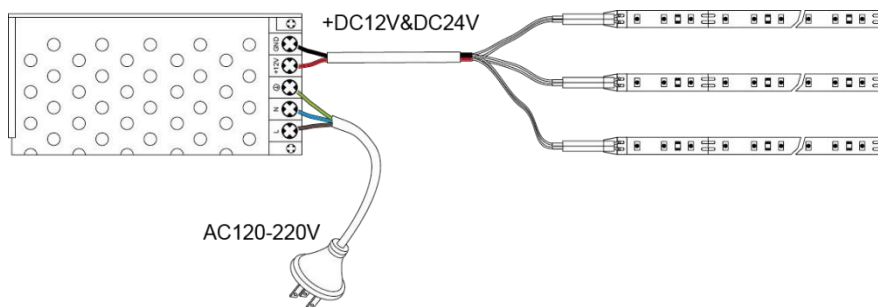


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
B 20	300±10mm	Φ4.0±0.2mm	5000±50mm	10±0.5mm	2.1±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.394±0.02in	0.083±0.02in	/	/	/	/
D 54	300±10mm	Φ4.0±0.2mm	5000±50mm	10±0.5mm	2.6±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.394±0.02in	0.102±0.02in	/	/	/	/
S 54	300±10mm	Φ4.0±0.2mm	5000±50mm	10±0.5mm	2.3±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.394±0.02in	0.091±0.02in	/	/	/	/
K 54	300±10mm	Φ4.0±0.2mm	5020±50mm	12±0.5mm	4±0.2mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.472±0.02in	0.16±0.01in	/	/	/	/
K 65	300±10mm	Φ4.0±0.2mm	5020±50mm	12±0.5mm	4±0.2mm	10.5±0.5mm	10.5±0.5mm	13.2±0.5mm	6±0.5mm
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.472±0.02in	0.16±0.01in	0.41±0.02in	0.41±0.02in	0.52±0.02in	0.34±0.02in
F 65	300±10mm	Φ4.0±0.2mm	5020±50mm	12±0.5mm	4.0±0.5mm	22.5±0.5mm	10±0.5mm	14.5±0.5mm	6.0±0.5mm
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.473±0.02in	0.16±0.02in	0.89±0.02in	0.39±0.02in	0.57±0.02in	0.24±0.02in
E 67	300±10mm	Φ4.0±0.2mm	5020±50mm	12.5±0.25mm	5.5±0.5mm	27.5±0.5mm	12.5±0.5mm	16.7±0.2mm	7.5±0.5mm
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.49±0.009in	0.22±0.02in	1.08±0.02in	0.49±0.02in	0.657±0.008in	0.30±0.02in
R 67	300±10mm	Φ5.8±0.2mm	5020±50mm	12.0±0.25mm	5±0.5mm	30±0.5mm	11±0.5mm	14.0±0.5mm	7.0±0.5mm
	11.81±0.39in	0.23±0.008 in	197.64±1.97in	0.47±0.01in	0.20±0.02in	1.18±0.02in	0.43±0.02in	0.551±0.02in	0.28±0.02in
RW 67	300±10mm	Φ5.8±0.2mm	5020±50mm	12.0±0.25mm	5±0.5mm	30±0.5mm	11±0.5mm	14.0±0.5mm	7.0±0.5mm
	11.81±0.39in	0.23±0.008 in	197.64±1.97in	0.47±0.01in	0.20±0.02in	1.18±0.02in	0.43±0.02in	0.551±0.02in	0.28±0.02in
C 68	300±10mm	Φ4.0±0.2mm	5020±50mm	12.5±0.5mm	4.5±0.5mm	27.5±0.5mm	12.5±0.5mm	15.5±0.5mm	7.5±0.5mm
	11.81±0.39in	0.16±0.008in	197.64±1.97in	0.492±0.02in	0.18±0.02in	1.08±0.02in	0.492±0.02in	0.61±0.02in	0.30±0.02in












Remarks:

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

Circuit Diagram







Standard Accessories

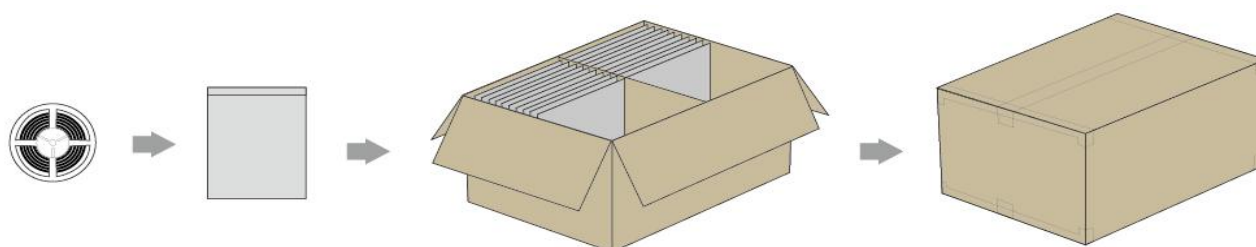
IP Level	Category	Description	Picture	Part No.	Application
E 20	/	/	/	/	/
	/	/	/	/	/
S 54	/	/	/	/	/
	/	/	/	/	/
K 54/65	/	/	/	/	/
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
F 65	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (12mm)	10mm Type F
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
E 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102E-CW (12mm)	10mm Type E
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
R 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (12mm)	10mm Type R
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
RW 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (12mm)	10mm Type RW
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
C 68	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (12mm)	10mm Type C
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip

Optional Accessories

IP Level	Category	Description	Picture	Part No.	Density
E 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-FLS102B-FS2 (10mm)	≤84LEDs/M
	Strip to wire Connector	2PIN Strip to wire Connector		WW-MLB-00SE2XB-10	≤84LEDs/M
	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-PWP2T-10	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102B-DD2(10MM)	≤84LEDs/M
	Strip to strip Connector	2PIN Strip to wire Connector		FLS102B-2FD2(10mm)	≤84LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-MLB-00SE2BB-10	≤84LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP2T-10	≤120LEDs/M
	Strip to wire Connector	2PIN Strip to Strip Connector		WW-FLS102BPOP-10(10mm)	≤240LEDs/M
	Strip to strip Connector	2PIN Strip to wire Connector		WW-FLS102BPWP-10(10mm)	≤240LEDs/M
D 54	Quick Connector	2PIN Connector		WW-FLS102D-2DD2(10MM)	≤84LEDs/M
	Quick Connector	2PIN Transparent Connector		WW-MLB-00DJ2BB-10	≤84LEDs/M
	Strip to wire Connector	2PIN Strip to wire Connector		WW-FLS102D-FS2(10MM)	≤84LEDs/M
	Strip to wire Connector	2PIN Transparent Strip to wire Connector		WW-MLB-00DJ2XB-10	≤84LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102D-FD2(10MM)	≤84LEDs/M
S 54	Quick Connector	2PIN Connector		WW-FLS102D-2DD2(10MM)	≤84LEDs/M
	Quick Connector	2PIN Transparent Connector		WW-MLB-00DJ2BB-10	≤84LEDs/M
	Strip to wire Connector	2PIN Strip to wire Connector		WW-FLS102D-FS2(10MM)	≤84LEDs/M
	Strip to wire Connector	2PIN Transparent Strip to wire Connector		WW-MLB-00DJ2XB-10	≤84LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102D-FD2(10MM)	≤84LEDs/M
K 54/65	Quick Connector	2PIN Transparent Connector		WW-MLB-00DJ2BB-10K	≤120LEDs/M
	Strip to wire Connector	2PIN Transparent Strip to wire Connector		WW-MLB-00DJ2XB-10K	≤120LEDs/M

IP Level	Category	Description	Picture	Part No.	Density
R 67	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-SW02T-10-300 (22)	≤60LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-SOP2T-10	≤120LEDs/M
RW 67	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-SW02T-10-300 (22)	≤60LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-SOP2T-10	≤120LEDs/M
C 68	/	/	/	/	/
F 65	/	/	/	/	/
E 67	/	/	/	/	/

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	60	5.25KG ±10%	8.33 KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	60	11.57 Lbs ±10%	18.36Lbs ±10%	1.62ft³
D 54	250*270*0.14mm	/	/	440*400 *260mm	40	10.27KG ±10%	14.56 KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	40	22.59 Lbs ±10%	32.03Lbs ±10%	1.62ft³
S 54	250*270*0.14mm	/	/	440*400 *260mm	40	9.38KG ±10%	13.78 KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	40	20.63 Lbs ±10%	30.61Lbs ±10%	1.62ft³
K 54/65	250*270*0.14mm	/	/	440*400 *260mm	36	8.334KG ±10%	14.683KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	36	18.373Lbs ±10%	32.37Lbs ±10%	1.62ft³
F 65	250*270*0.14mm	/	/	440*400 *260mm	40	11.08KG ±10%	13.88KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	40	24.38Lbs ±10%	30.536Lbs ±10%	1.62ft³
E 67	270*300*0.14mm	/	/	520*370*300mm	36	14.04KG ±10%	17.89KG ±10%	0.06m³
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81in	36	30.888Lbs ±10%	39.358Lbs ±10%	2.04ft³
R 67	270*300*0.14mm	/	/	520*370*300mm	36	8.8KG ±10%	14.89KG ±10%	0.06m³
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81in	36	19.36 Lbs ±10%	32.75Lbs ±10%	2.04ft³
RW 67	270*300*0.14mm	/	/	520*370*300mm	36	9.805 KG ±10%	21.25 KG ±10%	0.06m³
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81in	36	21.616 Lbs ±10%	46.848 Lbs ±10%	2.04ft³
C 68	270*300*0.14mm	/	/	520*370*300mm	36	14.04KG ±10%	17.89KG ±10%	0.06m³
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81in	36	30.888Lbs ±10%	39.358Lbs ±10%	2.04ft³


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.**