



Wah Wang Data Sheet for Flexible LED Strips

WW-FLS106XXT50A-12



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Features <ul style="list-style-type: none">30cm per pcsWidth of strip: 10mm12pcs LED per Reel3pcs LED per small unit PCBSize of small Unit (L X W): 296mm X 10mmOperating Voltage : 12V DCOperating Current: 200mA per PCS	Absolute Maximum Ratings at Ta=25°C		
	Parameter	MAX.	Unit
	Power Dissipation per meter	2.5	W
	Operating Temperature Range	-40 °C to +80 °C	
	Storage Temperature Range	-40 °C to +80 °C	

Dimension Drawing

Electrical Optical Characteristics at Ta=25°C

Part Number	Water Proof	Source Color	Dominant Wavelength λ_d				Luminous Flux				Viewing Angle
			Min.	Typ.	Max.	Unit	Min.	Typ.	Max.	Unit	
WW-FLS106SWT50A-12	YES	White	7000	----	8000	K	----	130	----	lm	120°
WW-FLS106WWT50A-12	YES	Warm White	3000		3500	K	----	130	----	lm	120°
WW-FLS106SRT50A-12	YES	Red	620		630	nm	----	18	----	lm	120°
WW-FLS106SGT50A-12	YES	Green	515		525	nm	----	90	----	lm	120°
WW-FLS106SBT50A-12	YES	Blue	465		475	nm	----	18	----	lm	120°

Notes:

- All dimensions are in millimeter.
- Tolerance of measurement is $\pm 0.25\text{mm}$ (.01") unless others otherwise noted.
- Tolerance of measurement of luminous intensity is $\pm 15\%$
- $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity. Tolerance of measurement of angle is ± 10 degree
- Caution in ESD: Static Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.
- The dominant wavelength λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- Specifications are subject to change without notice.

CAUTIONS

- Storage
 - The Flexible LED Strip should be stored at stored at 30°C or less and 70%RH or less after being shipped and the storage life limits are 3 months.
 - If the Flexible LED Strip is stored more than 3 months, they can be stored for a year in a sealed container with a nitrogen atmosphere and moisture absorbent material.
 - Please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.
- Static Electricity
 - Static electricity or surge voltage damages the Flexible LED Strip.
 - It is recommended that a wristband or an anti-electrostatic glove be used when handling the Flexible LED Strip.
 - All devices, equipment and machinery must be properly grounded.
 - It is recommended that measures be taken against surge voltage to the equipment that mounts the Flexible LED Strip
- Heat Generation
 - Thermal design of the end product was most importance. Please consider the heat generation of the Flexible LED Strip when making the system design.
 - The thermal resistance of the circuit board and density of Flexible LED Strip placement on the board, as well as other components was the important factor affecting the coefficient of temperature increase per input electric power.
 - It must be avoid intense heat generation and operate within the maximum ratings given in the specification.
 - The operating current should be decided after considering the ambient maximum temperature of Flexible LED Strip.
- Others
 - Care must be taken to ensure that the reverse voltage will not exceed the absolute maximum rating when using the Flexible LED Strip with matrix drive.
 - The Flexible LED Strip described in this brochure is intended to be used for ordinary electronic equipment (such as office equipment, communications equipment, measurement instruments and household appliances). Consult Wah Wang's sales staff in advance for information on the applications in which exceptional quality and reliability are required, particularly when the failure or malfunction of the Flexible LED Strip may directly jeopardize life or health (such as for airplanes, aerospace, submersible repeaters, nuclear reactor control systems, automobiles, traffic control equipment, life support systems and safety devices).
 - User shall not reverse engineer by disassembling or analysis of the Flexible LED Strip without having prior written consent from Wah Wang. When defective Flexible LED Strip is found, the User shall inform Wah Wang directly before disassembling or analysis.
 - The formal specifications must be exchanged and signed by both parties before large volume purchase begins.
 - The appearance and specifications of the product may be modified for improvement without notice.