Fluflux

LED Strip Lights – Troubleshooting Guide		
Problem	**Possible Causes**	**Recommended Solutions**
All LED strip lights do not light up	No power	Confirm power is turned on
	Incorrect polarity (+/-)	Check polarity and fix reverse wiring
	Short circuit protection triggered	Use a multimeter to confirm voltage at strip input
	Loose wiring or connector not fully inserted	Ensure connector pins are properly inserted
	Using wrong voltage power supply (e.g., 12V instead of 24V)	Replace faulty or incompatible power supply
Only part of the LED strip lights up	Connection break at unlit section	Check continuity between working and non-working sections using a multimeter
	Incorrect polarity for that section	Verify correct polarity
	Damaged circuit board or LED in the group	Cut out the damaged section and reconnect using solderless connectors
LEDs flicker or blink on and off	Overloaded or failing power supply	Use higher wattage or better-quality power supply
	Loose connection at connector/solder point	Secure all connector points and reinsert wires
	Dimmer not compatible or improperly installed	Confirm dimmer compatibility
	Long wire run causing voltage drop	Reduce strip length or use thicker gauge power wires
LED strip lights far from the power supply are dimmer	Voltage drop across long runs or thin wires	Add power injection at far end
		Shorten strip run length
		Use thicker power feed wires
LED strip lights overheat	Poor heat dissipation	Ensure good airflow or consider using aluminum channels for extra heat dissipation
	Operating in high ambient temperature	Avoid operating above 60°C (144°F) ambient
	Incorrect pairing (e.g., 12V strip with 24V power)	Check label and specifications before installation. Match 24V strip with 24V power. Incorrect voltage may cause damage or overheating
LED strip lights brightness shift (fade or dim unexpectedly)	Power supply overloaded or overheating, triggering internal protection	Replace with higher wattage power supply
	Total wattage exceeds the rated output of the power supply	Reduce load by splitting into multiple runs
LED strip lights do not stick securely	Poor surface prep	Clean surface with alcohol before application
	Uneven or dusty surfaces	Ensure surface is smooth, clean, and dry