

Multistar LP Supply 12V 10AMP-S (Red Box)

The **Multistar LP Supply 12V 10AMP-S** is a generic model name for a switching power supply unit; while an exact manufacturer's datasheet for a "Multistar" branded product is not available, the specifications for this common power supply type are consistent across suppliers. The key technical specifications are detailed below, synthesized from typical product listings.

General Specifications

- **Product Type:** Enclosed Switched Mode Power Supply (SMPS).
- **Case Material:** Metal (Aluminum base) with mesh vents.
- **Dimensions (Approximate):** Varies slightly by manufacturer, but typically around 199 x 110 x 50 mm.
- **Operating Temperature:** -10°C to +60°C.
- **Usage Environment:** Indoor use only (not waterproof).

Electrical Data

Attribute	Specification
Input Voltage Range	AC 100V – 264V
Input Frequency	50 / 60 Hz
Output Voltage	DC 12V
Output Current (Max)	10 Amps
Rated Power	120 Watts

Voltage Adjustment Range	Approx. 10V to 16V DC (via potentiometer)
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Efficiency	Typically $\geq 85\%$
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Output Ripple & Noise	$\leq 42\text{mV}$
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Protection Features

The unit includes robust safety features to protect both the power supply and connected devices:

- **Short Circuit Protection (SCP):** The circuit opens when a short condition occurs and automatically restores after the condition is removed.
- **Overload Protection (OLP):** The power supply enters a self-protection status if the current exceeds the rated output power (typically 105%-140%).
- **Over Voltage Protection (OVP):** Protects connected devices from voltage spikes.
- **Over Temperature Protection:** Automatic thermal cut-off feature.