

## **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**

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

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<b>Voltage Adjustment Range</b>	Approx. 10V to 16V DC (via potentiometer)
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<b>Efficiency</b>	Typically ≥85%
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<b>Output Ripple &amp; Noise</b>	≤42mV
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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.