

# Chapter 1 Introduction

## TRFS0930 Series

### Ultra-low ripple AC/DC Switching Power Supply | 50W



- Ultra-low ripple & noise
- Significant reduction of common mode noise
- Low conducted emission, low radiated emission
- Floating output, high stability
- Low leakage current (0.15mA/at 264Vac)
- Primary-secondary dielectric strength 4k VAC (1min)

#### Product Information:

Teslaman made Superior Ultra Low Noise AC/DC Switching Power Supply The TRFS0930 series, further reduces noise to the Superior Ultralow level and provides clean DC power with a complex resonant converter. The RFS50A switching power supply is an ideal for noise-sensitive applications, especially the equipment used in advanced hyperfine measurement, testing and medical & biotechnology elds.

#### Typical Application:

Semiconductor testing; Electrostatic application; Material analysis; Electron microscopy; Other scientific research.

#### Specifications:

<b>Input</b>	Rating AC100~240V (Range: AC85~264V) Rating 50/60Hz (Range:47~63Hz), 0.8A/0.5A
<b>Output</b>	24VDC 2.1A 50.4W(Max)
<b>Line Regulation</b>	96mV (0.04%)
<b>Load Regulation</b>	150mV (0.625%)
<b>Ripple</b>	1mV (p-p)
<b>Environmental</b>	Operational: -10 °C to 60 °C Storage: -20 °C to 85 °C
<b>Humidity</b>	10% ~ 95% R, Non condensing
<b>Efficiency</b>	80%
<b>Cooling System</b>	Convection
<b>Protection</b>	Over-voltage, over-current
<b>Interface</b>	Analog 8 pin connection
<b>Dimension</b>	W82mm, H42mm, D178.5mm。
<b>Weight</b>	500g

**TRFS0930 Series model selection table (Customizable) :**

Rated Value		Model
V	A	
5	10	TRFS0930D5-50
12	4.2	TRFS0930D12-50
15	3.4	TRFS0930D15-50
24	2.1	TRFS0930D24-50
*30	1.7	TRFS0930D30-50
*48	1.1	TRFS0930D48-50

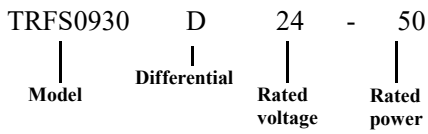
**Description for model code**

Model code represent the property and parameters :

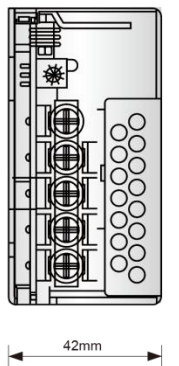
Rated output voltage unit V;

Rated output power, unit W;

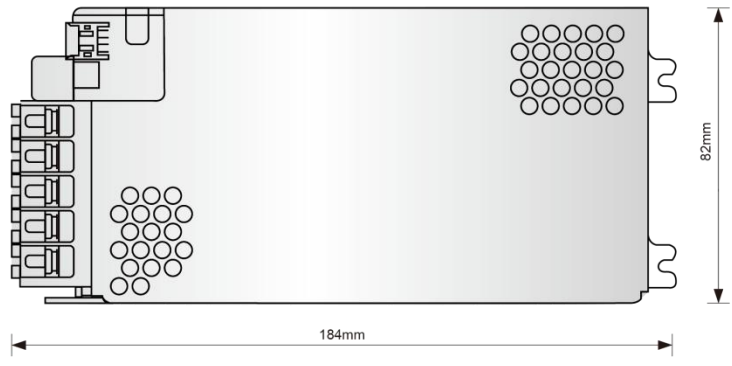
Polarity, D for differential (floating) output



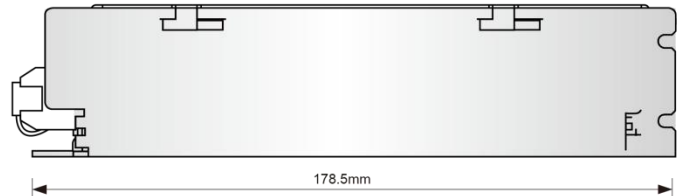
**Dimension: mm**



**Front View**



**Top View**



**Side View**