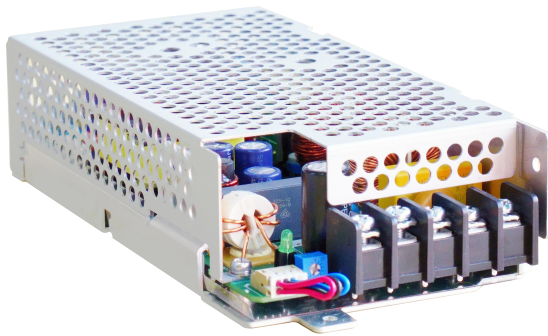


TRFS0930 Series

Ultra-low ripple Modular Power Supply | AC/DC, 50W, single switch



- 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:

The TRFS0930 series of ultra-low ripple single switch power supplies from Teslaman, with a maximum rated output of 24V 50W (other output voltages can be customized) and a minimum ripple peak-to-peak that can be better than 1mV, stands for its outstanding performance, reducing noise to an ultra-low level and demonstrating unprecedented noise reduction capabilities. This series of power supplies is equipped with sophisticated resonant converter technology on the inside, the stability of the output DC power and effectively filtering out various types of noise that could interfere with the device. As a preferred solution for noise-sensitive applications, the TRFS0930 series is particularly suitable for those occasions with extremely high requirements for power quality. In the field of advanced ultra-fine measurement, it can ensure precise and error- measurement results; in test equipment, it can ensure a stable and reliable test process; and in the medical and biotechnology fields, the TRFS0930 series is also indispensable ideal power choice for all kinds of precision instruments, providing a solid foundation for research and applications in these areas.

Typical Application:

Semiconductor testing; electrostatic applications; material analysis; electron microscopy; other scientific research nanotechnology instruments; electron microscopes; CD-SEM; DR-SEM; EBI, high-end oscilloscopes; medical diagnosis; inspection machines; audio equipment; RF transceivers.

Specifications:

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

Dimension	W82mm, H42mm, D178.5mm.
Weight	500g.

Description for model code

Model code represent the property and parameters:

Rated output voltage unit V;

Rated output power, unit W;

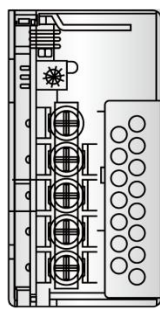
Polarity, D for differential (floating) output

TRFS0930	D	24	-	50
Model	Differential	Rated voltage	-	Rated power

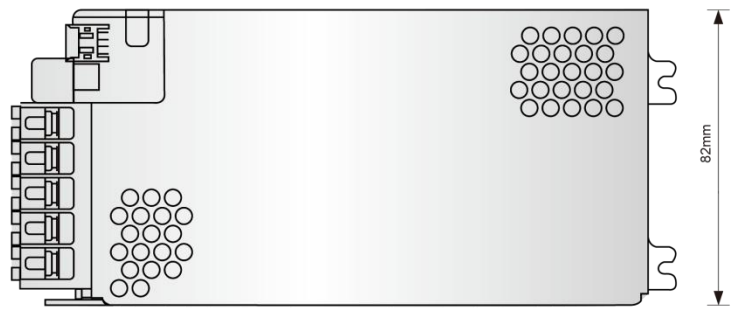
TRFS0930 Series model selection table(Customizable):

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

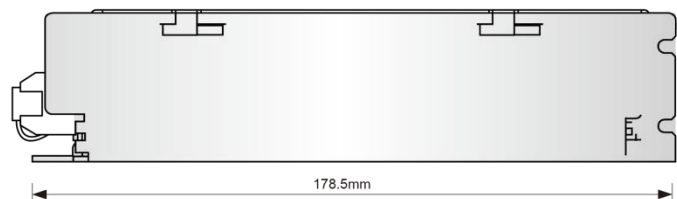
Dimension:mm



42mm
Front View



184mm
Top View



178.5mm
Side View