

# AC/DC ENCLOSED POWER SUPPLY 50W



TRS50-5, TRS50-12, TRS50-15, TRS50-24,  
TRS50-36, TRS50-48

## Features:

- No Load Power Consumption <0.2W
- Small Compact Design
- Cooling by free air convection
- High efficiency, long life and high reliability
- Universal Input
- Withstand 2G Vibration Test
- UL & CE Approved



## Description:

The 50W enclosed power supply range has been specially designed to offer high efficiency, long life and high reliability for use in a variety of applications. This range comprises of 6 models with outputs of either 5V, 12V, 15V, 24V, 36V or 48V. Each model is RoHS, CE, and UL approved.

SPECIFICATION						
Part Number	TRS50-5	TRS50-12	TRS50-15	TRS50-24	TRS50-36	TRS50-48
DC Voltage	5V	12V	15V	24V	36V	48V
Rated Current	10A	4.2A	3.4A	2.1A	1.4A	1.1A
Current Range	0~10A	0~4.2A	0~3.4A	0~2.1A	0~1.4A	0~1.1A
Rated Power	50W	50.4W	51W	50.4W	50.4W	52.8W
Ripple and Noise	100mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
Voltage Regulation Range	±10.0%					
Voltage Accuracy	≤2%(For 5V unit only)	≤1%(All other models)				
Line Regulation	≤0.5%					
Load Regulation	≤2%(For 5V unit only)	≤1%(All other models)				
No Load Power Consumption	<0.2W					
Turn on Time	≤2.5sec					
Hold up Time	20ms/ 100% Rated Load					
Voltage Range	90~264VAC					
Frequency	47~63Hz					
Input Current	MAX 1.0A/115VAC 0.55A/230VAC					
Efficiency	83%	85%	85%	85%	86%	86%
Inrush Current	60A/230VAC cold start					
Leakage Current	<1mA/240VAC					
Over Current Protection	110 ~ 160% of rated output, auto-recovery					
Short Circuit Protection	Hiccup Mode, auto-recovery					
Operating Temperature Range	-30°C ~ +70°C (See derating curve)					
Operating Humidity	20 ~ 95%RH (Non condensing)					
Storage Temperature Range	-30°C ~+80°C					
Storage Humidity	10 ~ 95%RH (Non condensing)					
Temperature Coefficient	±0.03%/°C(0~50°C)					
Vibration	10~500Hz, 2G, 10min/cycle, X, Y, Z 60min in each direction					
Safety Certification	EN62368-1					
Withstand Voltage	I/P-O/P:3.0KV AC, I/P-FG:1.5KV AC,O/P-FG:0.5KVAC					
Isolation Resistance	I/P-O/P,I/P-FG: 100MΩ/500VDC O/P-FG: 50MΩ/500VDC					
EMC (Emissions)	EN55032 Radiated and Conducted Class B, EN61000-3-2,3					
EMC (Immunity)	EN55035 EN61000-4-2,3,4,5,6,8,11					
MTBF	100,000 hours minimum at full load, 25C, per MIL-HDBK-217F					
Size	99×82×30mm(L*W*H)					
Weight	200g					

## General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

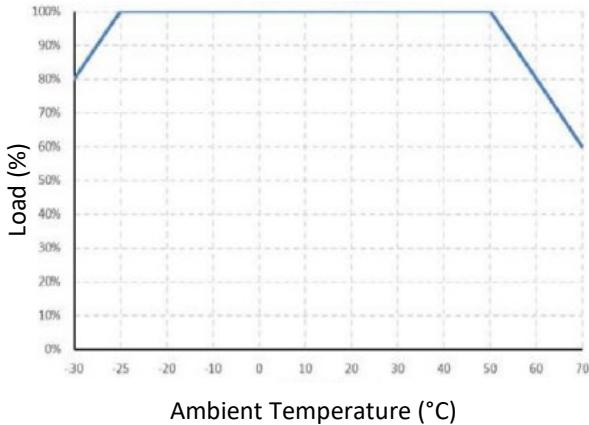
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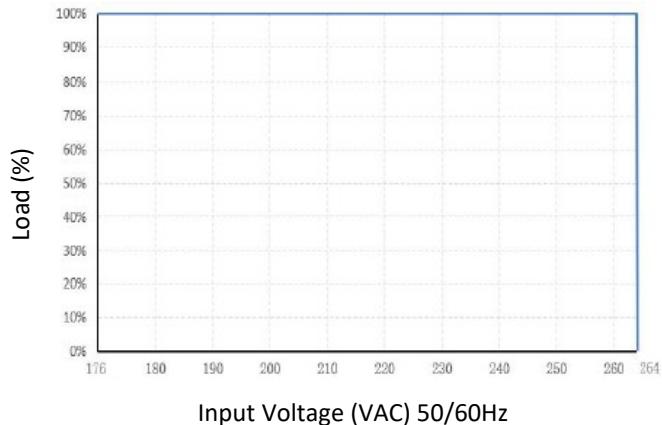
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## Diagrams

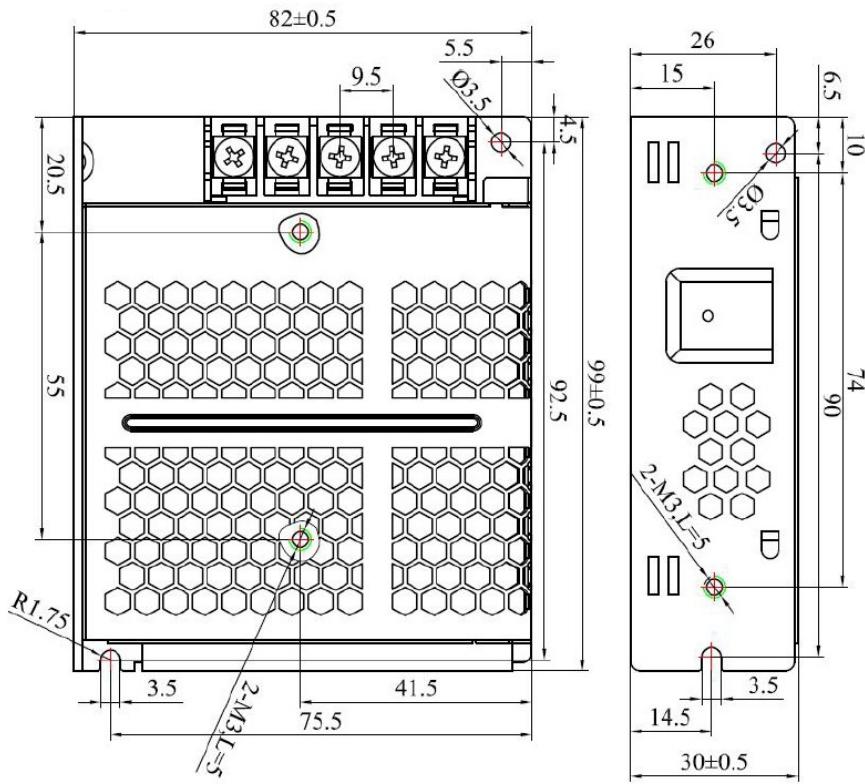
Load vs. Ambient Temperature



Load vs. Input Voltage



## Mechanical Drawings



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