



MEAN WELL RT-50 series 50W Triple Output Switching Power Supply User Guide

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MEAN WELL RT-50 series 50W Triple Output Switching Power Supply

SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035,BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020
OTHERS	MTBF	2788.1K hrs min. Telcordia SR-332 (Bellcore) ; 504.7K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	99*97*36mm (L*W*H)
	PACKING	0.41Kg; 45pcs/19.5Kg/0.94CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation, when multi-channel output, it is recommended that CH1 load > 10%. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load. 6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx	

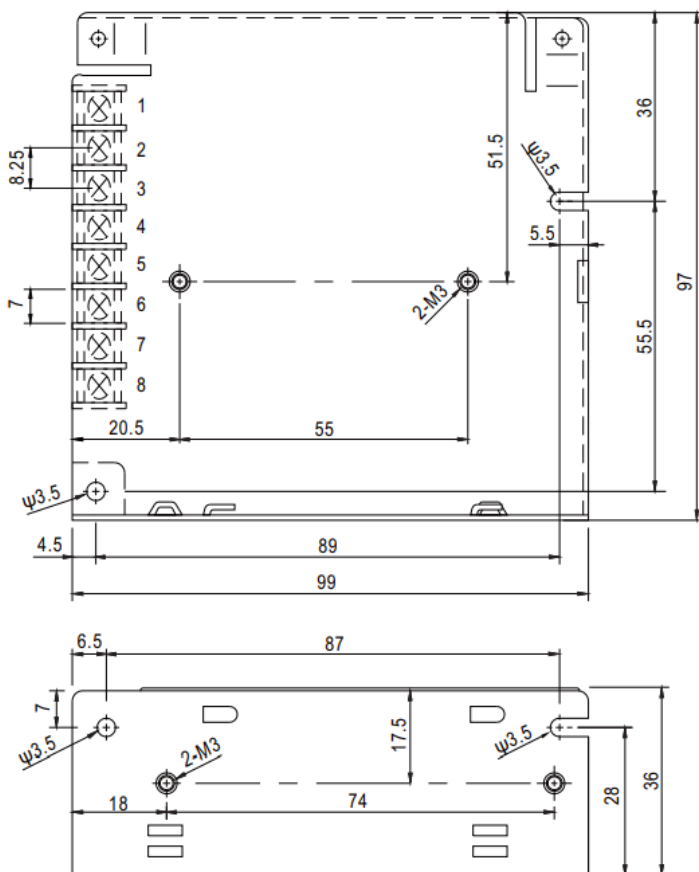
NOTE

Model Options and Output

The RT-50 series is available in four models:

- **RT-50A:** Output – CH1: 5V, CH2: 12V, CH3: -5V
- **RT-50B:** Output – CH1: 5V, CH2: 12V, CH3: -12V
- **RT-50C:** Output – CH1: 5V, CH2: 15V, CH3: -15V
- **RT-50D:** Output – CH1: 5V, CH2: 24V, CH3: 12V

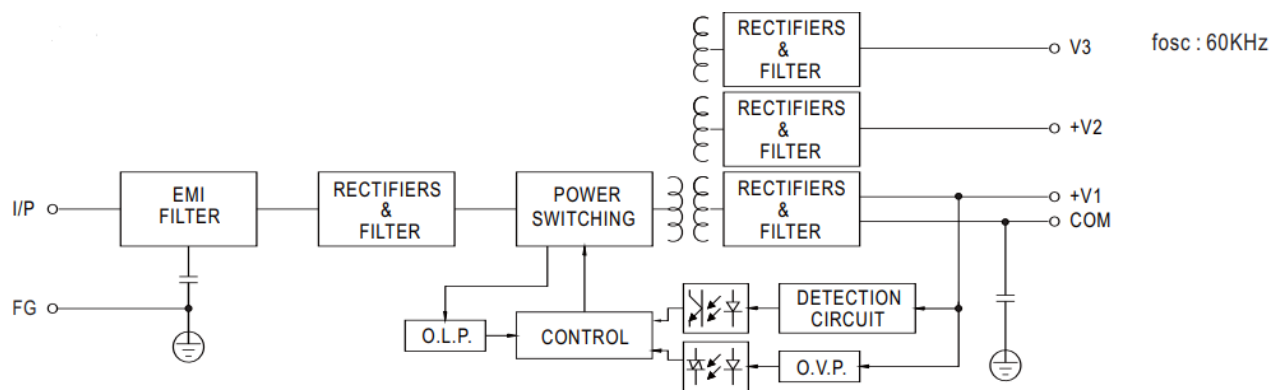
Mechanical Specification



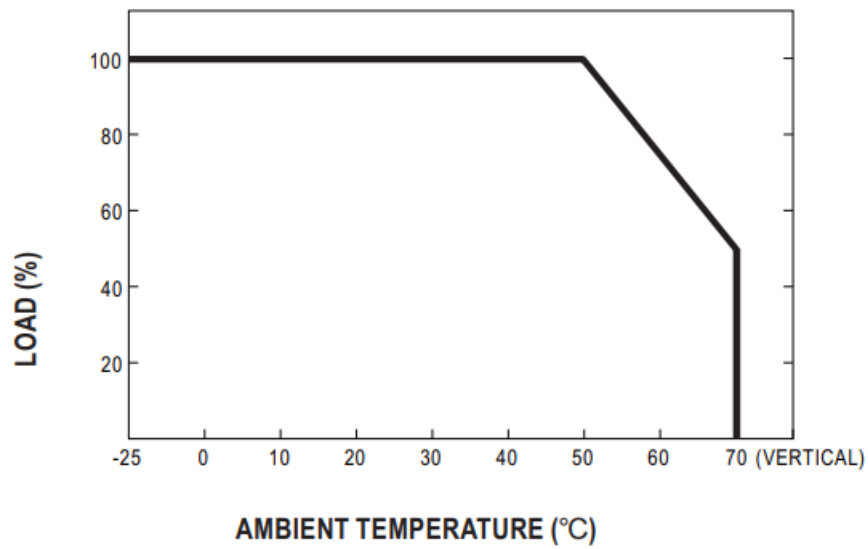
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5	DC OUTPUT V3
2	AC/N	6	DC OUTPUT +V2
3	FG \pm	7	DC OUTPUT COM
4	NC	8	DC OUTPUT +V1

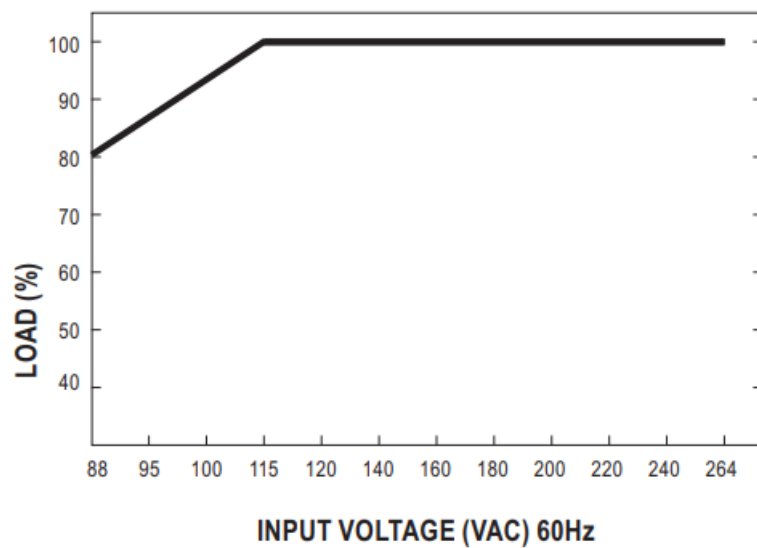
Block Diagram




Derating Curve



Output Derating VS Input Voltage



Documents / Resources

	<p>MEAN WELL RT-50 series 50W Triple Output Switching Power Supply [pdf] User Guide RT-50 series 50W Triple Output Switching Power Supply, RT-50 series, 50W Triple Output Switching Power Supply, Triple Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply, Power Supply, Supply</p>
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References

- [MEAN WELL Switching Power Supply Manufacturer](#)
- [Global Trade Item Number \(GTIN\)-MEAN WELL Switching Power Supply Manufacturer](#)
- [User Manual](#)