



RT-65 Series 65W
Triple Output
Switching
Power Supply



MEAN WELL RT-65 Series 65W Triple Output Switching Power Supply Owner's Manual

[Home](#) » [MEAN WELL](#) » MEAN WELL RT-65 Series 65W Triple Output Switching Power Supply Owner's Manual



Contents

- [1 MEAN WELL RT-65 Series 65W Triple Output Switching Power Supply](#)
- [2 Product Usage Instructions](#)
- [3 FAQ](#)
- [4 Features](#)
- [5 SPECIFICATION](#)
- [6 Mechanical Specification](#)
- [7 Block Diagram](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)



MEAN WELL RT-65 Series 65W Triple Output Switching Power Supply



Product Usage Instructions

Installation:

- Ensure the power supply is compatible with your device's requirements.
- Connect the input terminals to a suitable power source.
- Connect the output terminals to your device following the provided specifications.

Operation:

- Turn on the power supply using the power switch or by connecting it to the power source.
- Monitor the LED indicator to ensure power is on.

Safety Precautions:

- Do not operate the power supply in wet conditions to avoid electric shock.
- Avoid overloading the power supply beyond its rated capacity.
- If any abnormalities occur during operation, disconnect the power supply immediately.

FAQ

Frequently Asked Questions

- **Q:** What should I do if the LED indicator does not light up?
 - **A:** Check the power source and connections to ensure proper installation. If the issue persists, contact customer support for assistance.
- **Q:** How can I determine the appropriate output voltage for my device?
 - **A:** Refer to the specifications provided in the user manual and select the output voltage that matches

your device's requirements.

- **Q:** Can I use this power supply for outdoor applications?
 - **A:** It is recommended to use the power supply in indoor environments to prevent damage from external elements.

Features

- Universal AC input / Full range
- **Protections:** Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300 VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty



GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

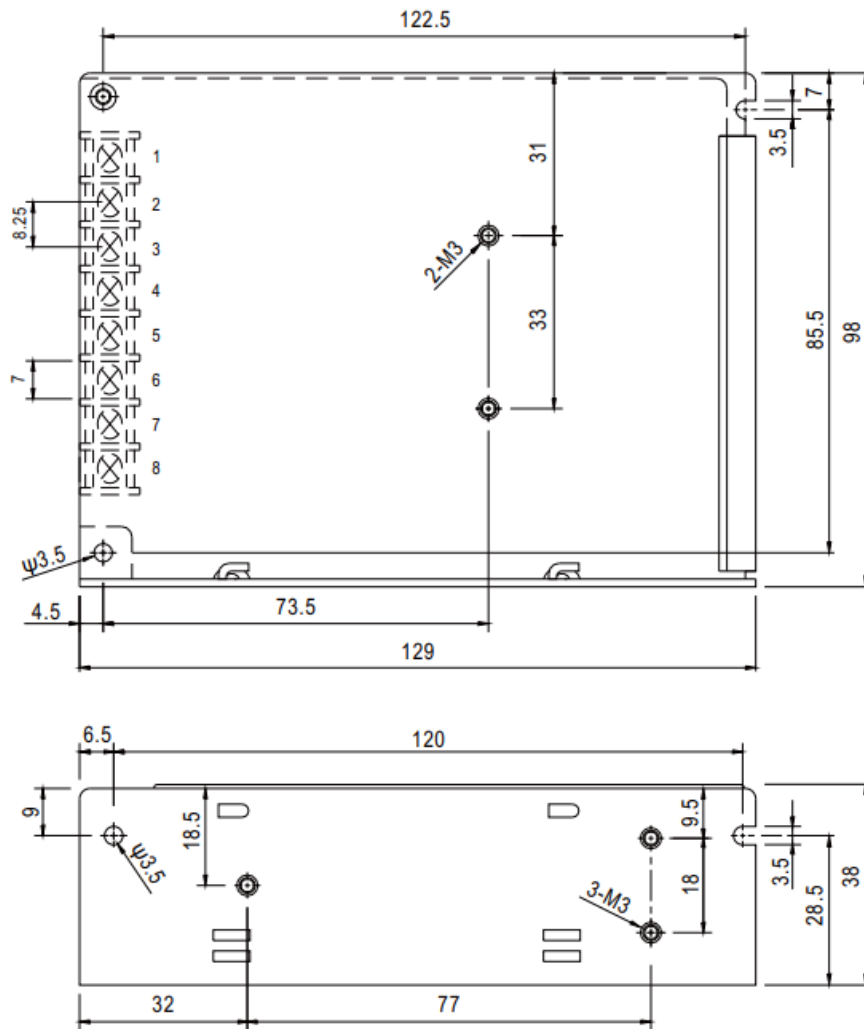
SPECIFICATION

MODEL		RT-65A			RT-65B			RT-65C			RT-65D		
	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	12V
	RATED CURRENT	6A	2.8A	0.5A	5A	2.8A	0.5A	5A	2.2A	0.5A	4A	1.5A	1A
	CURRENT RANGE Note.6	0 ~ 8A	0 ~ 3.5A	0 ~ 1A	0 ~ 8A	0 ~ 3.5A	0 ~ 1A	0 ~ 8A	0 ~ 3A	0 ~ 1A	0 ~ 8A	0 ~ 2A	0 ~ 1A
	RATED POWER Note.6	66.1W			64.6W			65.5W			68W		
	RIPPLE & NOISE (max.) Note.2	80m Vp-p	120 mVp-p	80m Vp-p	80m Vp-p	120 mVp-p	80m Vp-p	80m Vp-p	120 mVp-p	80m Vp-p	80m Vp-p	150 mVp-p	120 mVp-p

OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V		
	VOLTAGE TOLERANCE Note.3	±2.0 %	±6.0 %	±5.0 %	±2.0 %	±6.0 %	±5.0 %	±2.0 %	+8,-4 %	±5.0 %	±2.0 %	+4,-10 %	±6.0 %
	LINE REGULATION Note.4	±0.5 %	±1.5 %	±0.5 %	±0.5 %	±1.5 %	±0.5 %	±0.5 %	±1.5 %	±0.5 %	±0.5 %	±1.5 %	±2.0 %
	LOAD REGULATION Note.5	±1.0 %	±3.0 %	±1.0 %	±1.0 %	±3.0 %	±1.0 %	±1.0 %	±3.0 %	±1.0 %	±1.0 %	±3.0 %	±4.0 %
	SETUP, RISE TIME	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load											
	HOLD UP TIME (Typ.)	60ms/230VAC 14ms/115VAC at full load											
INPUT	VOLTAGE RANGE	88 ~ 264VAC			125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)								
	FREQUENCY RANGE	47 ~ 63Hz											
	EFFICIENCY(Typ.)	76%			76%			77%			78%		
	AC CURRENT (Typ.)	2A/115VAC			1.2A/230VAC								
	INRUSH CURRENT (Typ.)	COLD START 50A/230VAC											
	LEAKAGE CURRENT	<2mA / 240VAC											
PROTECTION	OVERLOAD	110 ~ 150% rated output power											
		Protection type : Hiccup mode, recovers automatically after fault condition is removed											
	OVER VOLTAGE	CH1: 5.75 ~ 6.75V											
		Protection type : Hiccup mode, recovers automatically after fault condition is removed											
ENVIRONMENT	WORKING TEMP.	-25 ~ +70℃ (Refer to “Derating Curve”)											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)on +5V output											

	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes
SAFETY & EMC (Note 7)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, BIS IS 13252(Part 1):2010/IEC 60950-1:2005, 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	2720.8K hrs min. Telcordia SR-332 (Bellcore) ;507.6K hrs min. MIL-HDBK -217F (25°C)
	DIMENSION	129*98*38mm (L*W*H)
	PACKING	0.44Kg; 30pcs/13.2Kg/0.72CUFT
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation, when multi-channel output, it is recommended that CH1 load > 10%.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.</p> <p>6. Each output can work within current range. But total output power can't exceed rated output power.</p> <p>7. 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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</p> <p>8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitudes higher than 2000m(6500ft).</p> <p>❖ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>	

Mechanical Specification

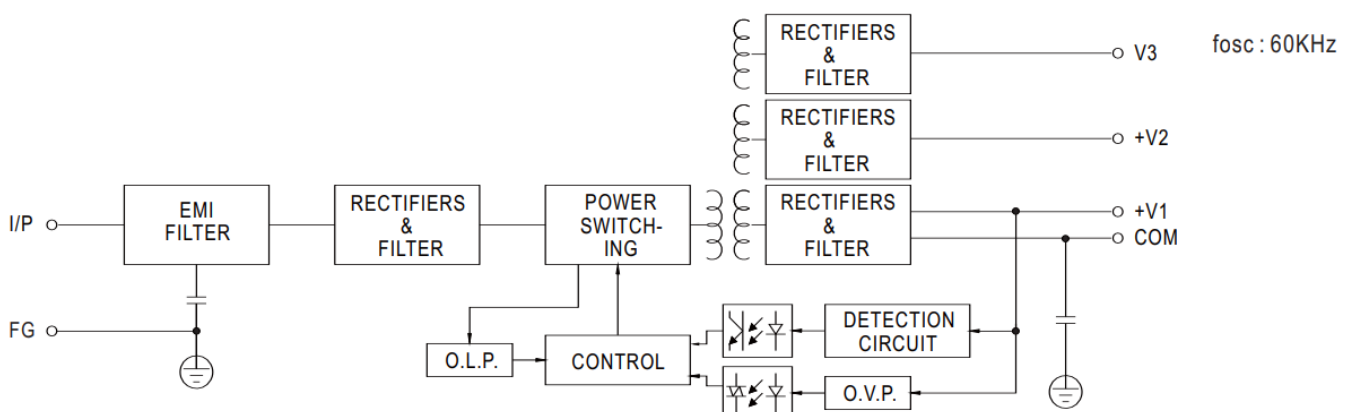


Case No. 903 Unit:mm

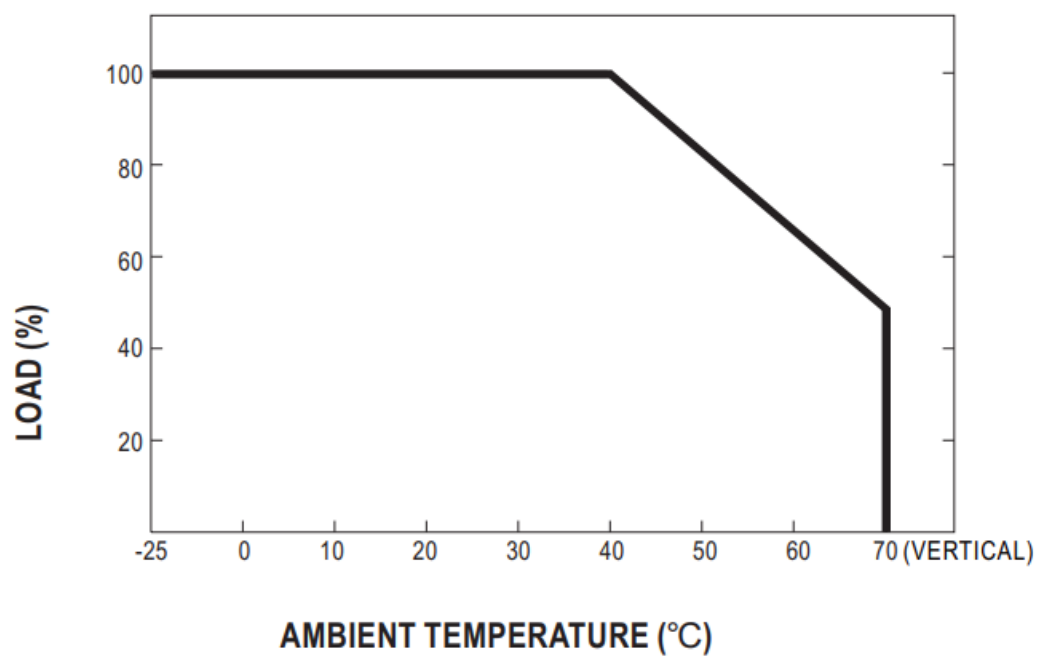
Terminal Pin No. Assignment

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

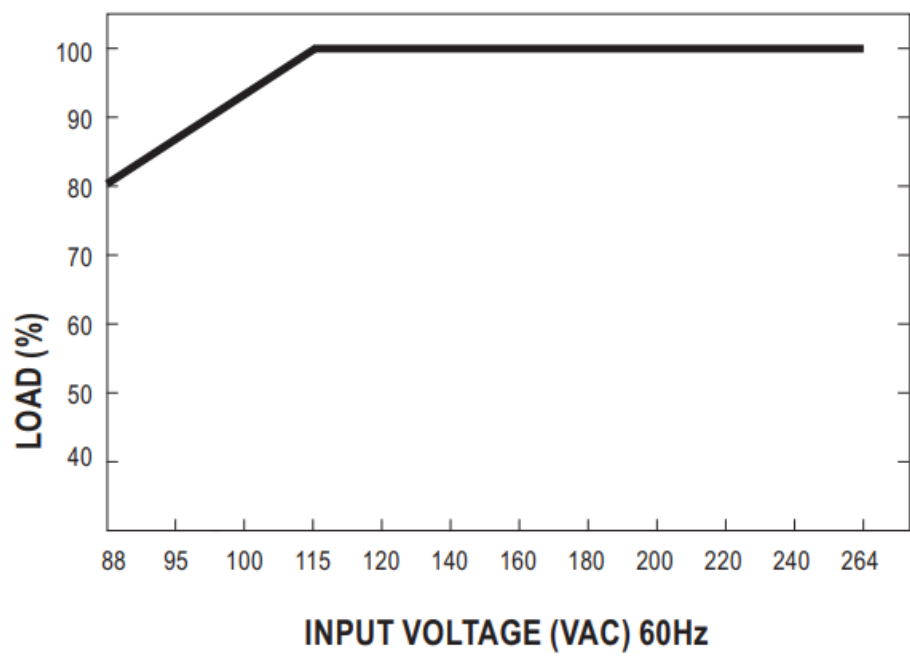
Block Diagram



Derating Curve



Output Derating VS Input Voltage




User's Manual





Documents / Resources

	<p>MEAN WELL RT-65 Series 65W Triple Output Switching Power Supply [pdf] Owner's Manual</p> <p>RT-65A, RT-65B, RT-65C, RT-65D, RT-65 Series 65W Triple Output Switching Power Supply, R T-65 Series, 65W 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

- [TÜV Rheinland - Home | US | TÜV Rheinland](#)
- [User Manual](#)

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