



## MEAN WELL RD-65 Series 65W Dual Output Switching Power Supply Owner's Manual

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MEAN WELL RD-65 Series 65W Dual Output Switching Power Supply



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## GTIN CODE

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

## Features

- Universal AC input/ Full range
- Protections: Short circuit/ Overload/ Over volta
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 1 05°C long life electrolytic capacitors
- Withstand 300VAC 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



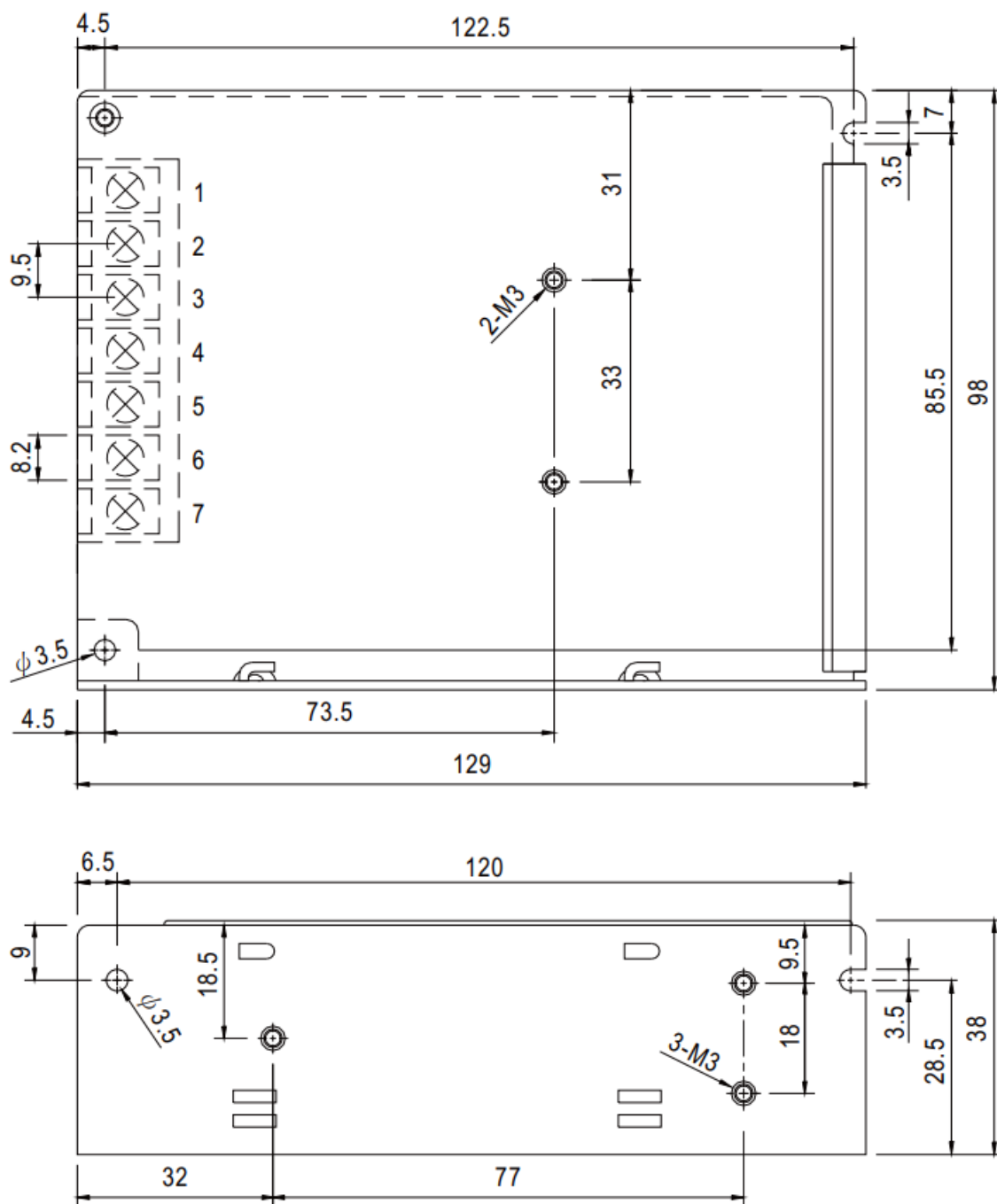
## SPECIFICATION

MODEL		RD-65A		RD-65B	
	OUTPUT NUMBER	CH1	CH2	CH1	CH2
	DC VOLTAGE	5V	12V	5V	24V
	RATED CURRENT	6A	3A	4A	2A

OUTPUT	CURRENT RANGE Note.6	0 ~ 8A	0 ~ 4A	0 ~ 8A	0 ~ 3A	
	RATED POWER Note.6	66W		68W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V		CH1: 4.75 ~ 5.5V		
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±2.0%	+4,-8%	
	LINE REGULATION Note.4	±0.5%	±1.5%	±0.5%	±2.0%	
	LOAD REGULATION Note.5	±0.5%	±3.0%	±0.5%	±6.0%	
	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.)	78%		77%		
	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°C (Refer to “Derating Curve”)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				

	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C) 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, 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	2940.2K hrs min. Telcordia SR-332 (Bellcore) ; 541.0K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	129*98*38mm (L*W*H)
	PACKING	0.44Kg; 30pcs/14.2Kg/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 &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF &amp; 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 &gt; 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 <a href="https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf</a>)</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 altitude higher than 2000m(6500ft).</p> <p>Product Liability Disclaimer For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>	

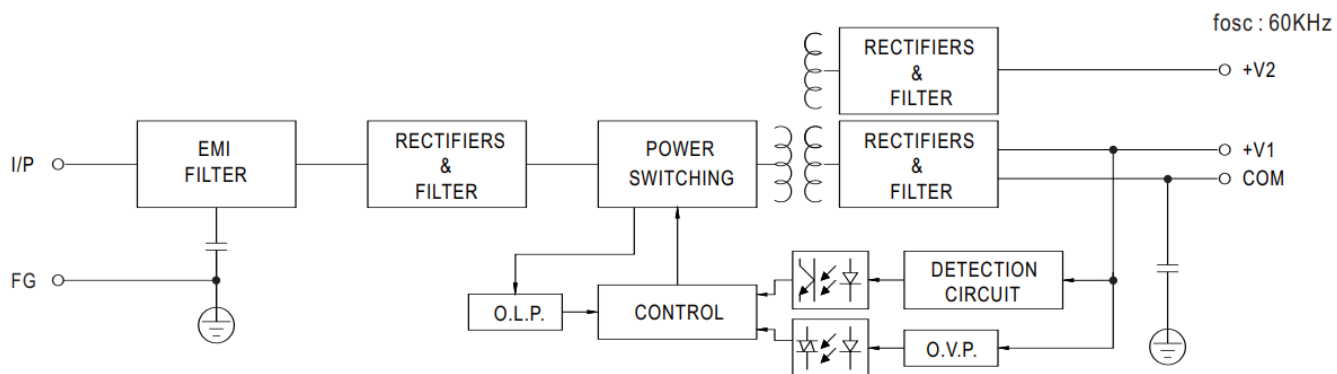
## Mechanical Specification



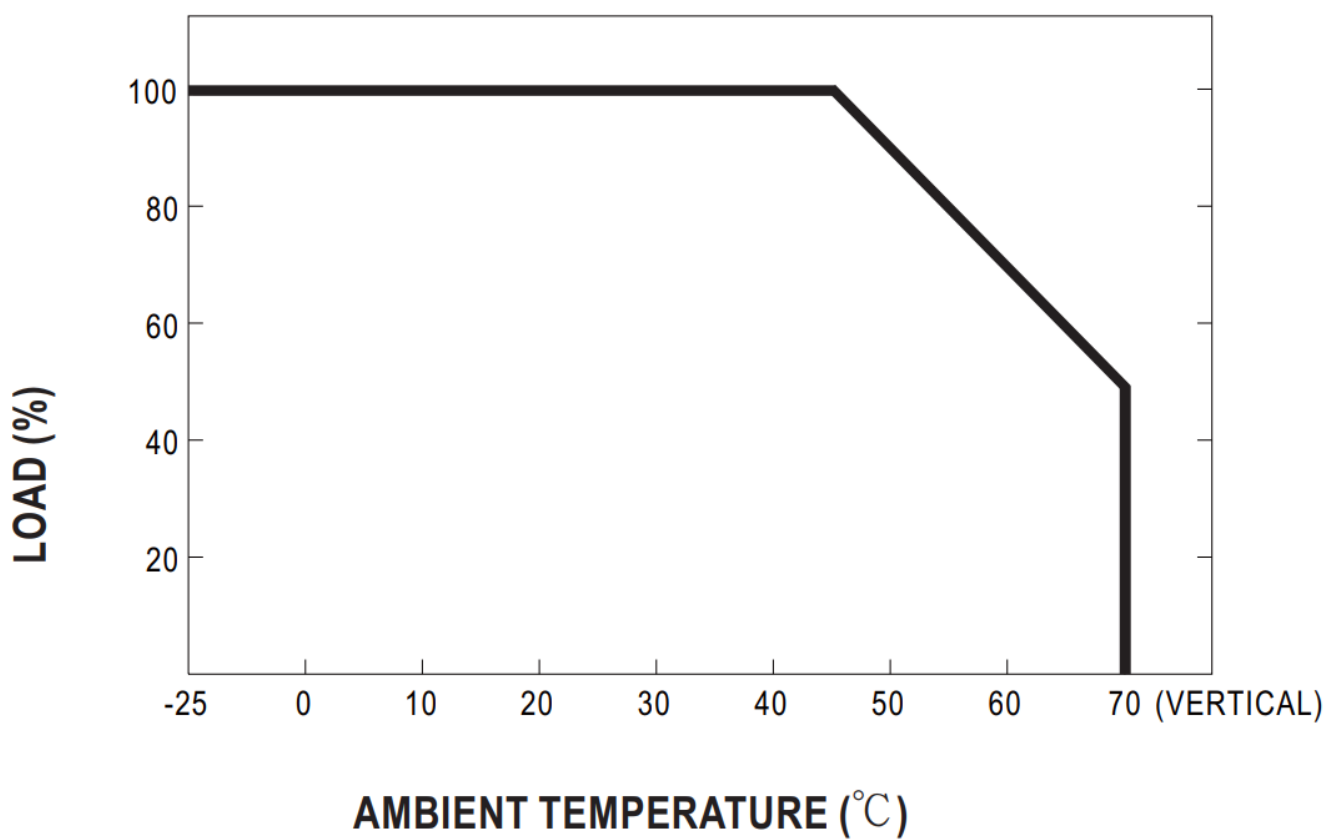
### Terminal Pin No. Assignment

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

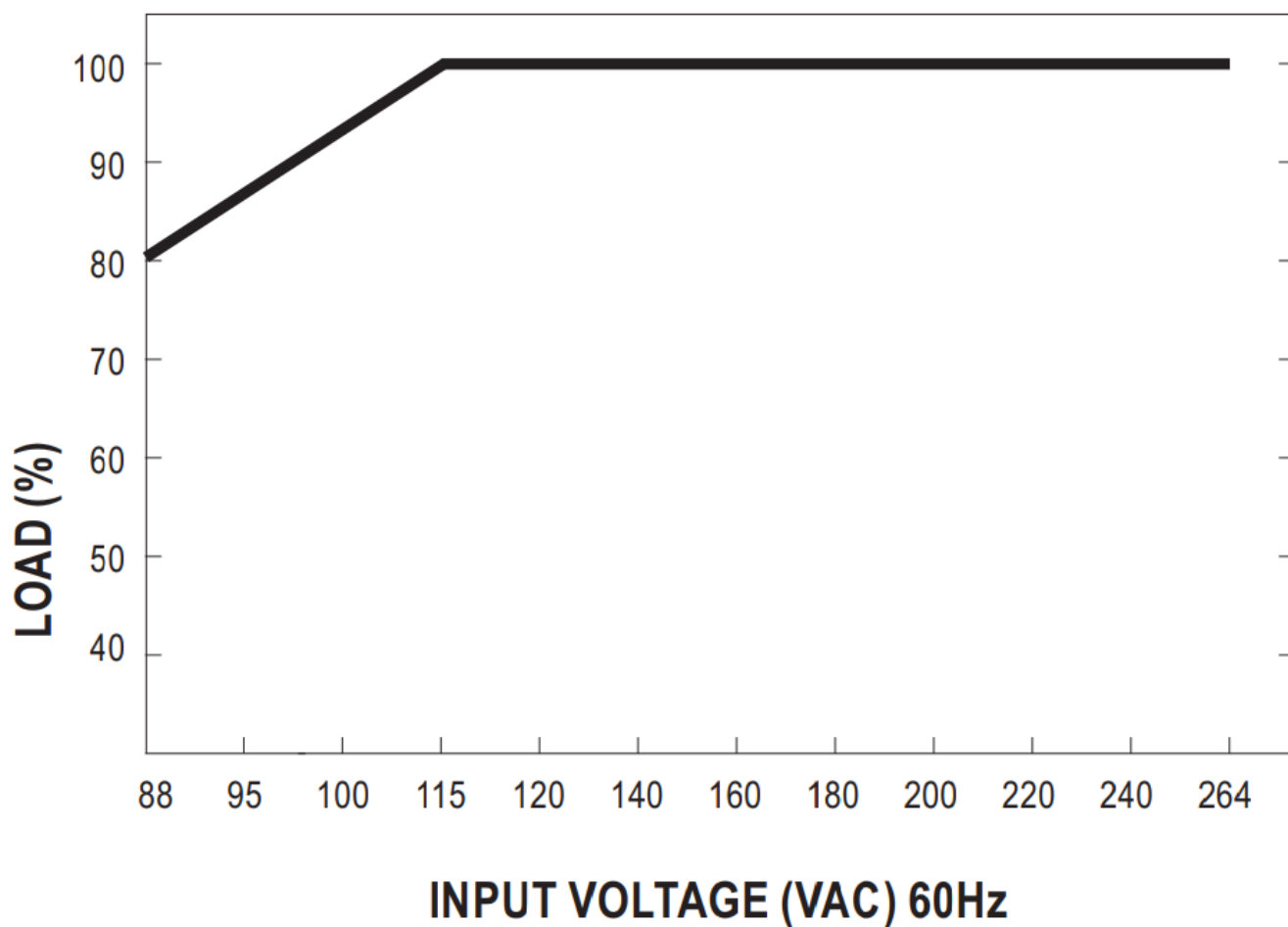
### Block Diagram



**Derating Curve**



**Output Derating VS Input Voltage**



User's Manual



## Documents / Resources



[MEAN WELL RD-65 Series 65W Dual Output Switching Power Supply](#) [pdf] Owner's Manual RD-65A, RD-65B, RD-65 Series 65W Dual Output Switching Power Supply, RD-65 Series, RD-65 Series Power Supply, 65W Dual Output Switching Power Supply, 65W Power Supply, Dual Output Switching Power Supply, Switching Power Supply, Dual Output Power Supply, Power Supply

## References

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

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