



MEAN WELL RD-35A Series 35W Dual Output Switching Power Supply



MEAN WELL RD-35A Series 35W Dual Output Switching Power Supply Owner's Manual

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MEAN WELL RD-35A Series 35W Dual Output Switching Power Supply



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 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

User's Manual



GTIN CODE

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

SPECIFICATION

MODEL		RD-35A		RD-35B		RD-3513	
OUTP UT	OUTPUT NUMBE R	CH1	CH2	CH1	CH2	CH1	CH2
	DC VOLTAGE	5V	12V	5V	24V	13.5V	-13.5V
	RATED CURREN T	4A	1A	2.2A	1A	1.3A	1.3A
	CURRENT RANG E	0 ~ 4A	0 ~ 1A	0 ~ 4A	0 ~ 1.3A	0 ~ 2A	0 ~ 1.5A
	RATED POWER	32W		35W		35.1W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p
	VOLTAGE ADJ. R ANGE	CH1: 4.75 ~ 5.5V		CH1: 4.75 ~ 5.5V		CH1: 11.5 ~ 15.5V	
	VOLTAGE TOLER ANCE Note.3	±2.0%	±6.0%	±2.0%	±5.0%	±4.0%	±4.0%
	LINE REGULATI ON Note.4	±0.5%	±1.5%	±0.5%	±1.0%	±0.5%	±0.5%
	LOAD REGULATI ON Note.5	±0.5%	±3.0%	±0.5%	±2.0%	±3.0%	±3.0%
	SETUP, RISE TIM E	500ms, 30ms/230VAC 1200ms, 30ms/115VAC at full load					
	HOLD UP TIME (Typ.)	80ms/230VAC 16ms/115VAC at full load					
INPU T	VOLTAGE RANG E	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without da mage)					
	FREQUENCY RA NGE	47 ~ 63Hz					
	EFFICIENCY (Ty p.)	79%		80%		80%	
	AC CURRENT (Ty p.)	0.8A/115VAC 0.55A/230VAC					
	INRUSH CURRE NT (Typ.)	COLD START 45A/230VAC					
	LEAKAGE CURR ENT	<2mA / 240VAC					
PROT ECTI	OVERLOAD	110 ~ 150% rated output power					
		Protection type : Hiccup mode, recovers automatically after fault condition is remo ved					
		CH1: 5.75 ~ 6.75V				CH1: 16.87 ~ 19.57V	

ENVIRONMENT	ON	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed
		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 CH1 output
SAFETY & EMC (Note 6)		VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes
		SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, BIS IS13252(Part1): 2010/IEC 60950-1:2005 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
OTHERS		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
		MTBF	3096.5K hrs min. Telcordia SR-332 (Bellcore) ; 541.3K hrs min. MIL-HDBK-217F (25°C)
		DIMENSION	99*82*36mm (L*W*H)
		PACKING	0.3Kg; 45pcs/14Kg/0.76CUFT

NOTE

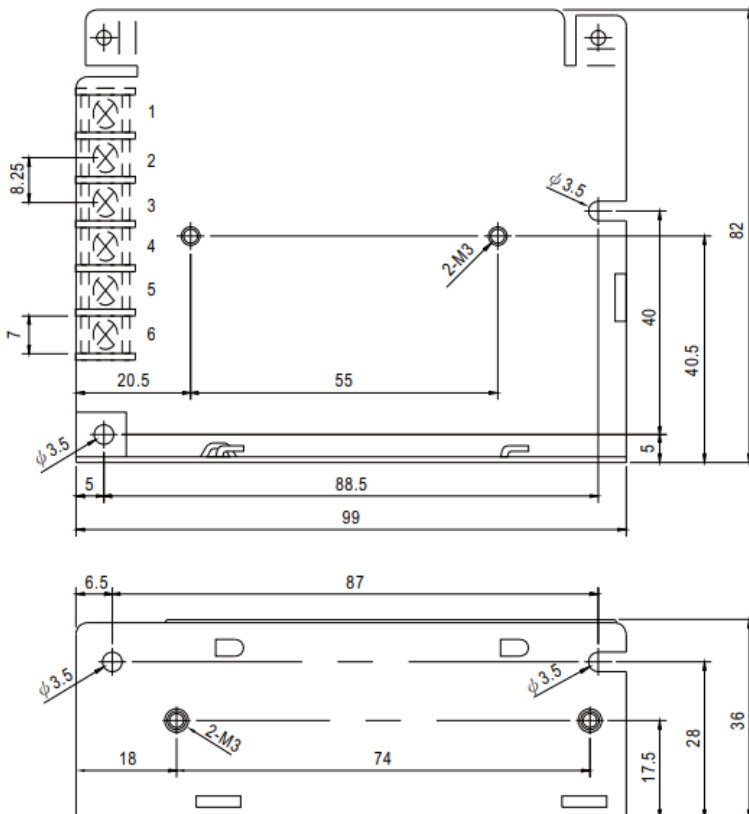
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation. (In order to meet tolerance, it is recommended that CH1 load >15% rated current for A type and CH1 load > 10% rated current for B type.)
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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
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>

Mechanical Specification

(Unit: mm , tolerance ± 1mm)

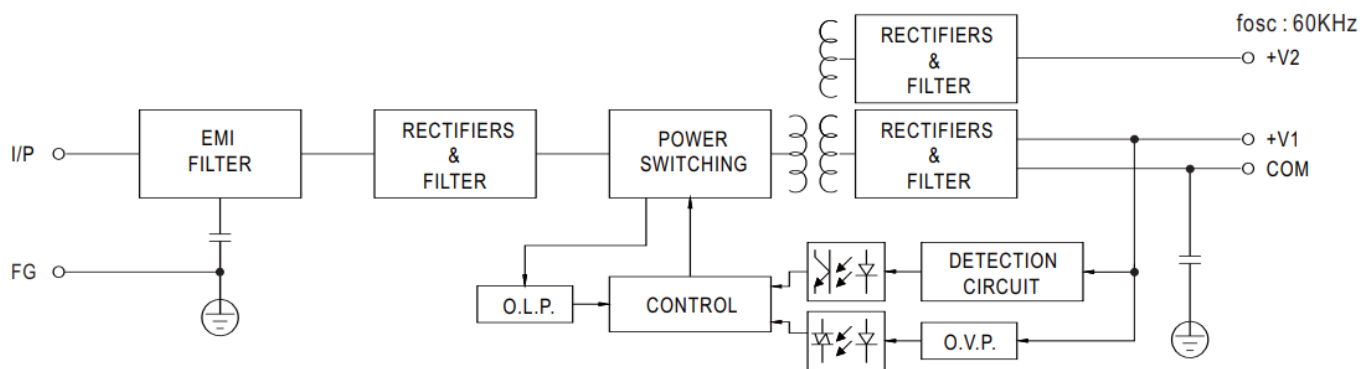
Case No. 932A



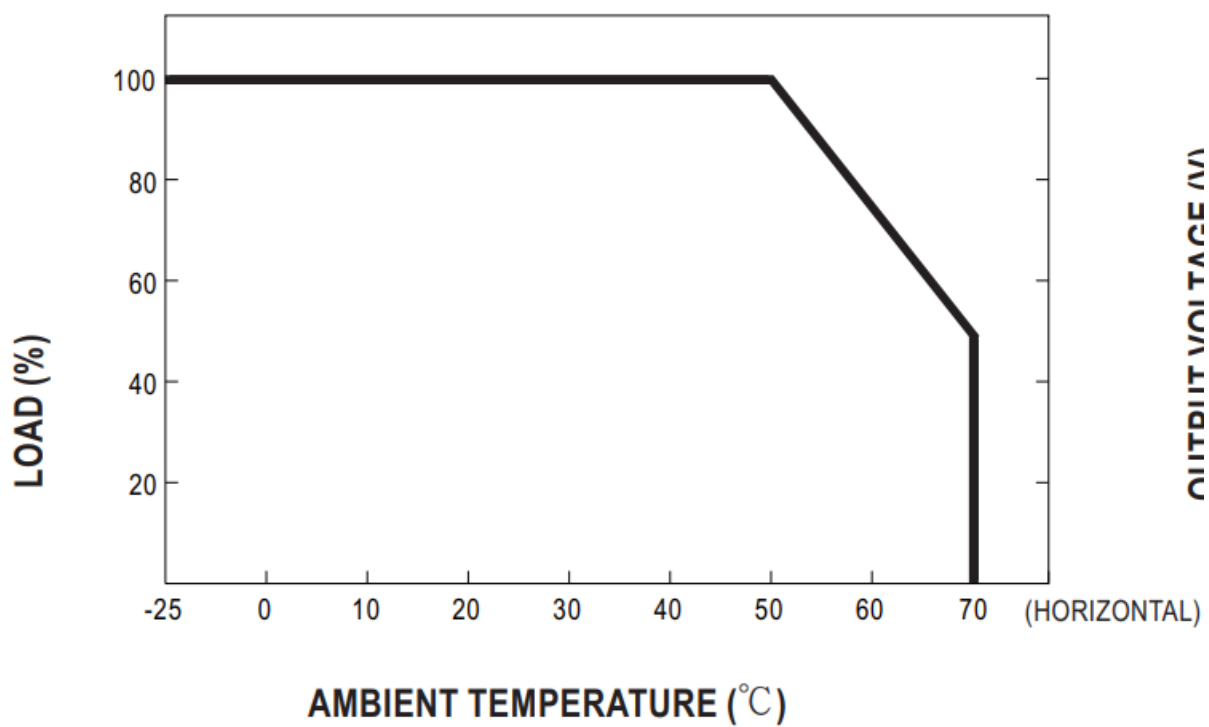
Terminal Pin No. Assignment

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

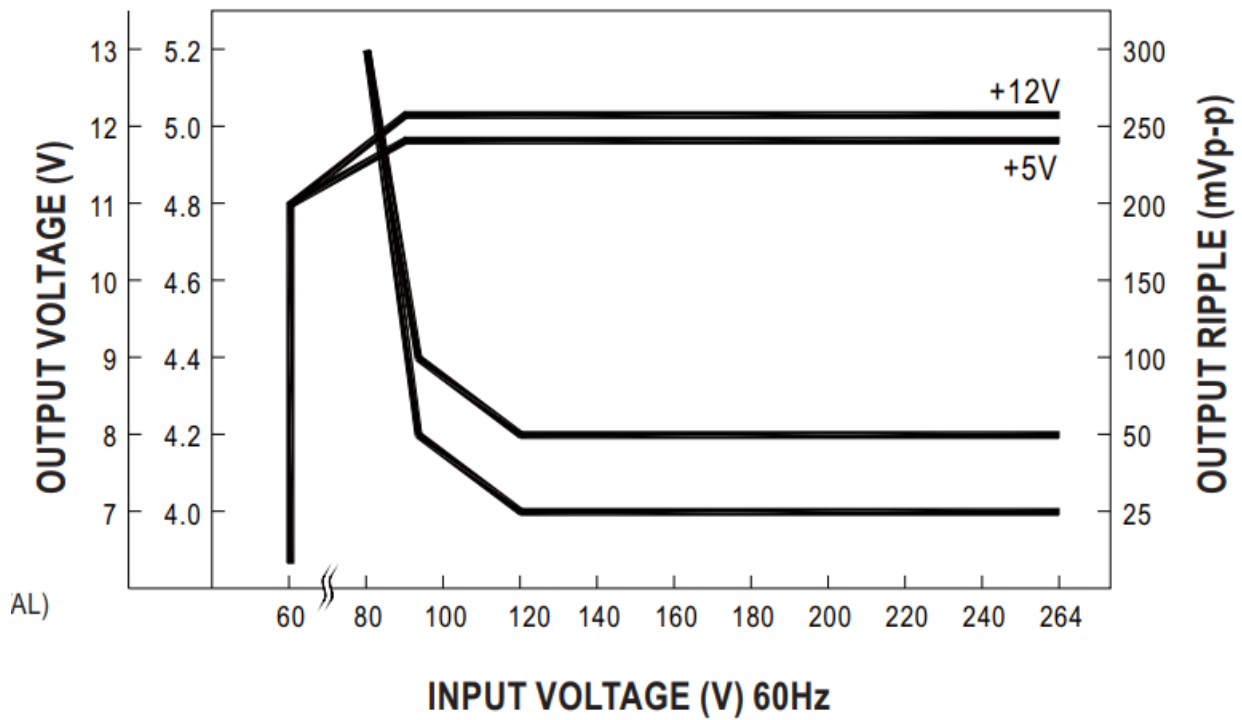
Block Diagram



Derating Curve



Static Characteristics (A)



[Arrow.com](https://www.arrow.com)

FAQ


- Q: What should I do if the LED indicator does not light up?**

A: Check the input connections and ensure that the AC power source is providing power. If the issue persists, contact customer support for assistance.

- Q: Can this power supply be used in outdoor environments?**

A: It is recommended to use the power supply in indoor environments to protect it from environmental factors like moisture and dust.

Documents / Resources

	<p>MEAN WELL RD-35A Series 35W Dual Output Switching Power Supply [pdf] Owner's Manual</p> <p>RD-35A Series 35W Dual Output Switching Power Supply, RD-35A Series, 35W Dual Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply, Power Supply</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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