



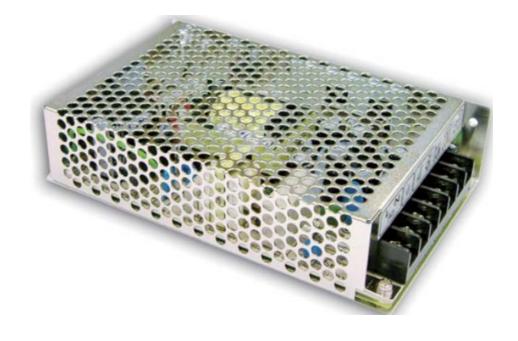
# Home » MEAN WELL » MEAN WELL RD-85 Series Dual Output Switching Power Supply Installation Guide 📆

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# **MEAN WELL RD-85 Series Dual Output Switching Power Supply**



- 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

#### **GTIN CODE**

MW Search: <a href="https://www.meanwell.com/serviceGTIN.aspx">https://www.meanwell.com/serviceGTIN.aspx</a>

#### **SPECIFICATION**

MOD	MODEL		RD-85A		RD-85B	
	OUTPUT NU MBER		CH1	CH2	CH1	CH2
	DC VOLTAGE  RATED CUR  RENT		5V	12V	5V	24V
			8A	4A	8A	2A
	CURRE NT RAN GE	N ot e. 3	0 ~ 10A	0 ~ 5A	0 ~ 10A	0 ~ 2.5A

N RATED ot POWER e. 6		88W		88W	
RIPPLE & OISE (max		80mVp-p	120mVp-p	80mVp-p	120mVp-p
VOLTAGE J. RANGE		CH1: 4.75 ~ 5.5V		CH1: 4.75 ~ 5.5V	
VOLTAGE TO LERANCE N ote.3		±2.0%	±5.0%	±2.0%	±5.0%
LINE REG		±0.5%	±1.0%	±0.5%	±1.0%
LOAD R EGULAT ION	N ot e. 5	±1.0%	±3.0%	±1.0%	±3.0%
SETUP, RISE		500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load			
HOLD UP TI ME (Typ.)		100ms/230VAC 18ms/115VAC at full load			
VOLTAGE NGE	RA	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge f or 5sec. Without damage)			

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	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY( Typ.)	78%	80%	
UT	AC CURREN T (Typ.)	2.5A/115VAC 1.5A/230VAC		
	INRUSH CUR RENT (Typ.)	COLD START 50A/230VAC		
	LEAKAGE C URRENT	<2mA / 240VAC		
	OVERLOAD	110 ~ 150% rated output power		
PR		Protection type: Hiccup mode, recovers automatically after fault condition is removed		
ОТ	OVER VOLTA GE	CH1: 5.75 ~ 6.75V		
TIO N		Protection type: Hiccup mode, recovers automatically after fault condition is removed		
	WORKING T EMP.	-25 ~ +70°C (Refer to "Derating Curve")		
	WORKING H UMIDITY	20 ~ 90% RH non-condensing		
EN VIR	STORAGE T EMP., HUMID ITY	-40 ~ +85°C, 10 ~ 95% RH		
ON ME NT	TEMP. COEF	±0.03%/°C (0 ~ 50°C)on +5V output		

1				
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X , Y, Z axes		
	SAFETY STA NDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, BIS IS1 3252(Part1): 2010/IEC 60950-1:2005 approved		
SA FET	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
Y & EM	ISOLATION R ESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% R		
C (Not	EMC EMISSI ON	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/E N61000-3-2,-3, EAC TP TC 020		
e 7)	EMC IMMUNI TY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN5 5035, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy indust ry level, EAC TP TC 020		
	MTBF	2897.3K hrs min. Telcordia SR-332 (Bellcore) ; 537.9K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	159*97*38mm (L*W*H)		
	PACKING	0.6Kg; 24pcs/15.4Kg/0.83CUFT		

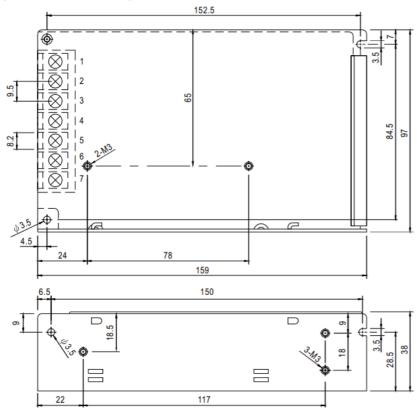
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- 1. All parameters NOT specially mentioned are measured at 230VAC input, rate d load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation. (In o rder to meet tolerance, it is recommended that CH1 load > 10% rated current.)
- 4. Line regulation is measured from low line to high line at rated load.
- 5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.
- 6. Each output can work within current range. But total output power can't exce ed rated output power.
- 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>)
- 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.
- The ambient temperature derating of 3.5°C/1000m with fanless models and o f 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- \* Product Liability Disclaimer For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>

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#### **Mechanical Specification**

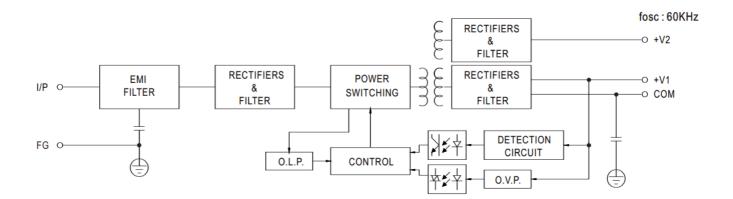
(Unit: mm , tolerance ± 1mm) Case No. 901C



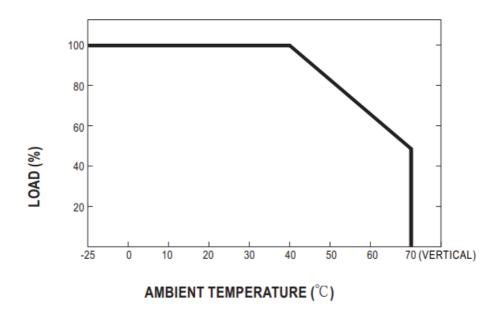
Terminal Pin No. Assignment

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

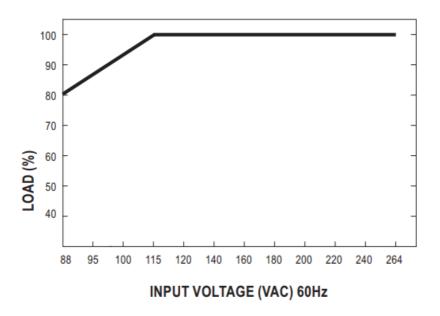
## **Block Diagram**



# **Derating Curve**



#### **Static Characteristics**



## **Frequently Asked Questions**

### • Q: What should I do if the LED indicator does not light up?

A: Check the input power source and ensure it is within the specified voltage range. Verify all connections are secure.

## • Q: How can I reset the overload protection feature?

A: Disconnect the load causing the overload, allow the power supply to cool down, and then reconnect after ensuring the load is within the rated limits.

# **Documents / Resources**



MEAN WELL RD-85 Series Dual Output Switching Power Supply [pdf] Installation Guide

RD-85A, RD-85B, RD-85 Series Dual Output Switching Power Supply, RD -85 Series, Dual Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply

#### References

User Manual

# **Related Posts**



MEAN WELL RS-25 Series 25W Single Output Switching
Power Supply Owner's Manual

MEAN WELL RS-25 Series 25W Single Output Switching Power Supply Owner's Manual Features Universal AC

input / Full...



MEAN WELL RQ-50 Series 50W Quad Output Switching
Power Supply Owner's Manual

MEAN WELL RQ-50 Series 50W Quad Output Switching Power Supply Features Universal AC input / Full range

Protections:...



MEAN WELL APV-25 Series 25W Single Output
Switching Power Supply User Manual

MEAN WELL APV-25 Series 25W Single Output
Switching Power Features Constant voltage mode power

supply Universal AC input...

MEAN WELL RD-65A Serie Dual Output Switching Power Supply Owner's Manual

MEAN WELL RD-65A Serie Dual Output Switching Power Supply Features Universal AC

#### input/ Full range Protections: Short circuit/...



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e.g. whirlpool wrf535swhz

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▶ Dual Output Switching Power Supply, MEAN WELL, Output Switching Power Supply, Power Supply, RD-85 Series, RD-85 Series Dual Output Switching Power Supply, RD-85A, RD-85B, Switching Power Supply

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