



# MEAN WELL RS-75 series 75W Single Output Switching Power Supply Instruction Manual

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## MEAN WELL RS-75 series 75W Single Output Switching Power Supply Instruction Manual



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### 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
- No load power consumption<0.5W
- High efficiency, long life and high reliability
- 3 years warranty

## GTIN CODE

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

## SPECIFICATION

MODEL		RS-75-3.3	RS-75-5	RS-75-12	RS-75-15	RS-75-24	RS-75-48
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V	48V
	RATED CURRENT	15A	12A	6A	5A	3.2A	1.6A
	CURRENT RANGE	0 ~ 15A	0 ~ 12A	0 ~ 6A	0 ~ 5A	0 ~ 3.2A	0 ~ 1.6A
	RATED POWER	49.5W	60W	72W	75W	76.8W	76.8W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	3V ~ 3.6V	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	22 ~ 27.6V	42 ~ 54V
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%

	<b>LINE REGULATION</b> Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	<b>LOAD REGULATION</b> Note.5	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	<b>SETUP, RISE TIME</b>	500ms, 30ms/230VAC      1200ms, 30ms/115VAC at full load					
	<b>HOLD UP TIME (Typ.)</b>	60ms/230VAC14ms/115VAC at full load					
<b>INPUT</b>	<b>VOLTAGE RANGE</b>	88 ~ 264VAC125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)					
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz					
	<b>EFFICIENCY(Typ.)</b>	75%	79%	84.5%	86%	88.5%	89.5%
	<b>AC CURRENT (Typ.)</b>	2A/115VAC      1.2A/230VAC					
	<b>INRUSH CURRENT (Typ.)</b>	COLD START 40A/230VAC					
	<b>LEAKAGE CURRENT</b>	<2mA / 240VAC					
<b>PROTECTION</b>	<b>OVERLOAD</b>	110 ~ 150% rated output power					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	<b>OVER VOLTAGE</b>	3.8 ~ 4.45V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	55.2 ~ 64.8V

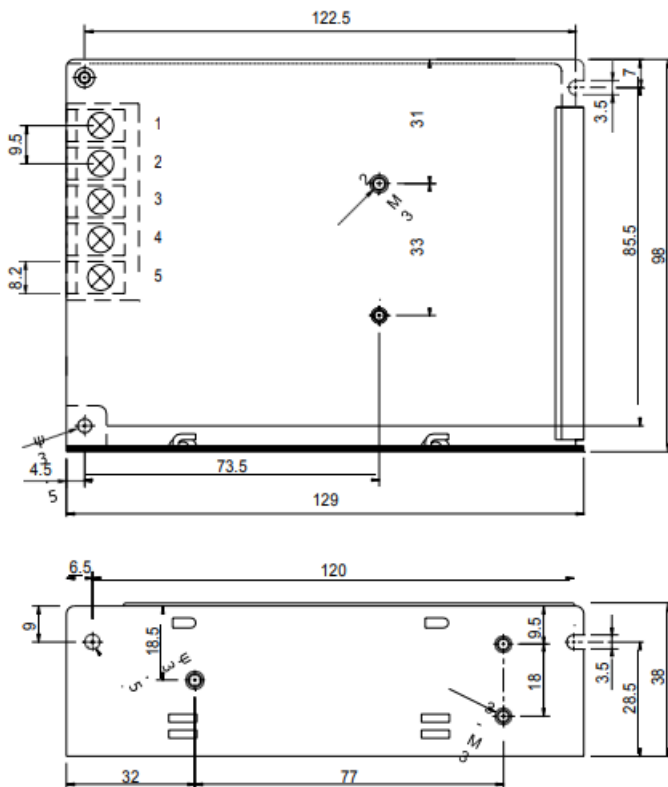
		Protection type : Hiccup mode, recovers automatically after fault condition is removed
ENVIRONMENT	WORKING TEMP	-25 ~ +70°C (Refer to “Derating Curve”)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, AS/NZS 62368.1, 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/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020
OTHERS	MTBF	2918.8K hrs min. Telcordia SR-332 (Bellcore) ; 569.6K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	129*98*38mm (L*W*H)
	PACKING	0.41Kg; 30pcs/13.3Kg/0.86CUFT

## 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.
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>

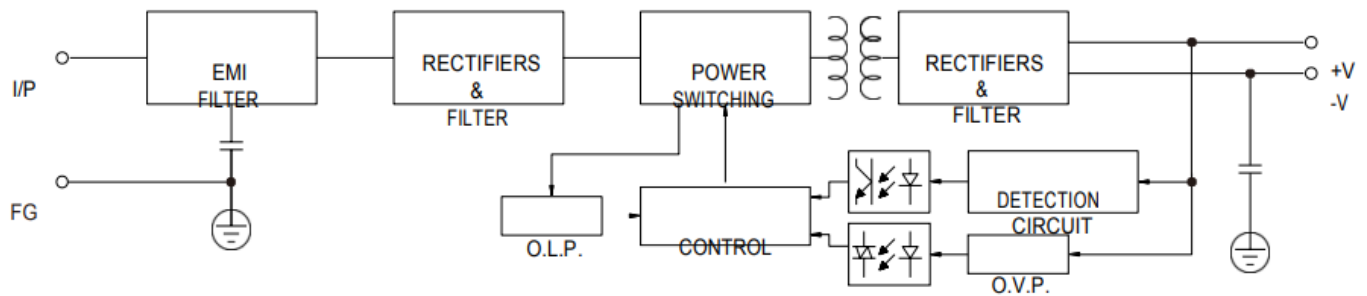
## Mechanical Specification



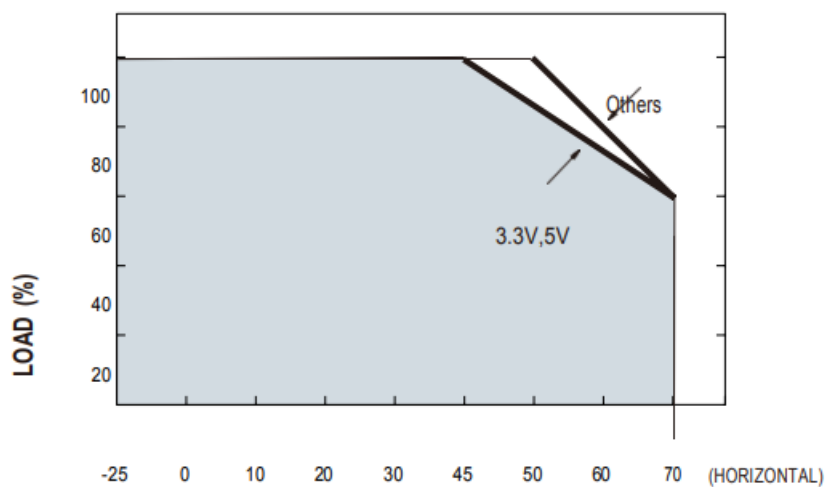
## Terminal Pin No. Assignment

Pin No.	Assignment
1	AC/I
2	AC/N
3	FG
4	DC OUTPUT -V
5	DC OUTPUT +V

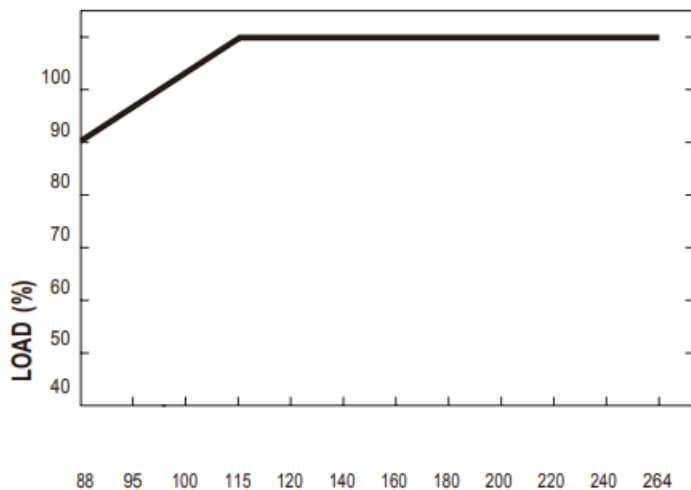
### Block Diagram



### Derating Curve



### Output Derating VS Input Voltage



## QR CODE



## Documents / Resources



[MEAN WELL RS-75 series 75W Single Output Switching Power Supply](#) [pdf] Instruction Manual

RS-75 series 75W Single Output Switching Power Supply, RS-75 series, 75W Single Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply, Power Supply, Supply

## References

- [MEAN WELL Switching Power Supply Manufacturer](#)