



# MW RS-75 Series 75W Single Output Switching Power Supply Owner's Manual

[Home](#) » [MW](#) » MW RS-75 Series 75W Single Output Switching Power Supply Owner's Manual 

## Contents

- [1 MW RS-75 Series 75W Single Output Switching Power Supply](#)
- [2 Product Information](#)
- [3 Specifications](#)
- [4 Product Usage Instructions](#)
- [5 Features](#)
- [6 Block Diagram](#)
- [7 Documents / Resources](#)
  - [7.1 References](#)



**MW RS-75 Series 75W Single Output Switching Power Supply**



## Product Information

The RS-75 series is a 75W Single Output Switching Power Supply manufactured by Mean Well. It is compliant with safety standards such as AS/NZS62368-1, UL62368-1, BS EN/EN62368-1, and IEC62368-1. The product has been tested and certified by TUV with an ID of 2000000000. For more information, please visit <https://www.meanwell.com/serviceGTIN.aspx>.

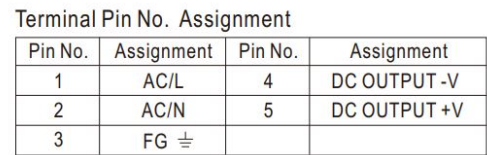
## Specifications

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 ~ 13.2 V	13.5 ~ 16.5 V	22 ~ 27.6V	42 ~ 54V
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION 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/230VAC      14ms/115VAC at full load					
<b>INPUT</b>	<b>VOLTAGE RANGE</b>	88 ~ 264VAC      125 ~ 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 ~ 6.75 V	13.8 ~ 16.2 V	17.25 ~ 20.25V	27.6 ~ 32.4 V	55.2 ~ 64.8 V
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	-25 ~ +70°C (Refer to “Derating Curve”)					
	<b>WORKING HUMIDITY</b>	20 ~ 90% RH non-condensing					
	<b>STORAGE TEMP., HUMIDITY</b>	-40 ~ +85°C, 10 ~ 95% RH					
	<b>TEMP. COEFFICIENT</b>	±0.03%/°C (0~50°C)					
	<b>VIBRATION</b>	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes					
<b>SAFETY &amp; EMC (Note</b>	<b>SAFETY STANDARDS</b>	UL62368-1, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004 approved					
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
	<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					

6)	<b>EMC EMISSION</b>	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020
	<b>EMC IMMUNITY</b>	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
<b>OTHERS</b>	<b>MTBF</b>	2918.8K hrs min. Telcordia SR-332 (Bellcore) ; 569.6K hrs min. MIL-HDBK-217F (25°C)
	<b>DIMENSION</b>	129*98*38mm (L*W*H)
	<b>PACKING</b>	0.41Kg; 30pcs/13.3Kg/0.86CUFT
<b>NOTE</b>	<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 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 0% to 100% rated load.</p> <p>6. The power supply is considered a component which will be installed into a final equipment. All the MC 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 MC directives. For guidance on how to perform these MC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p> <p>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)</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



**Note:** For detailed safety instructions and precautions, please refer to the user manual provided by the manufacturer.

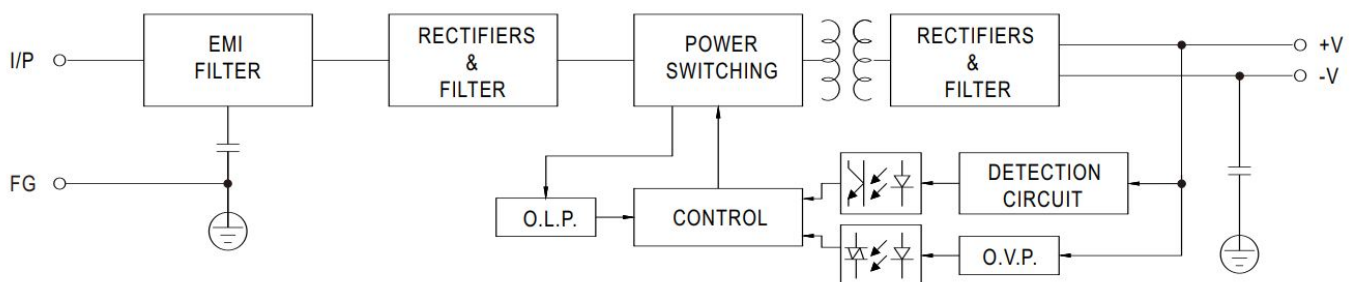
## Features

- 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

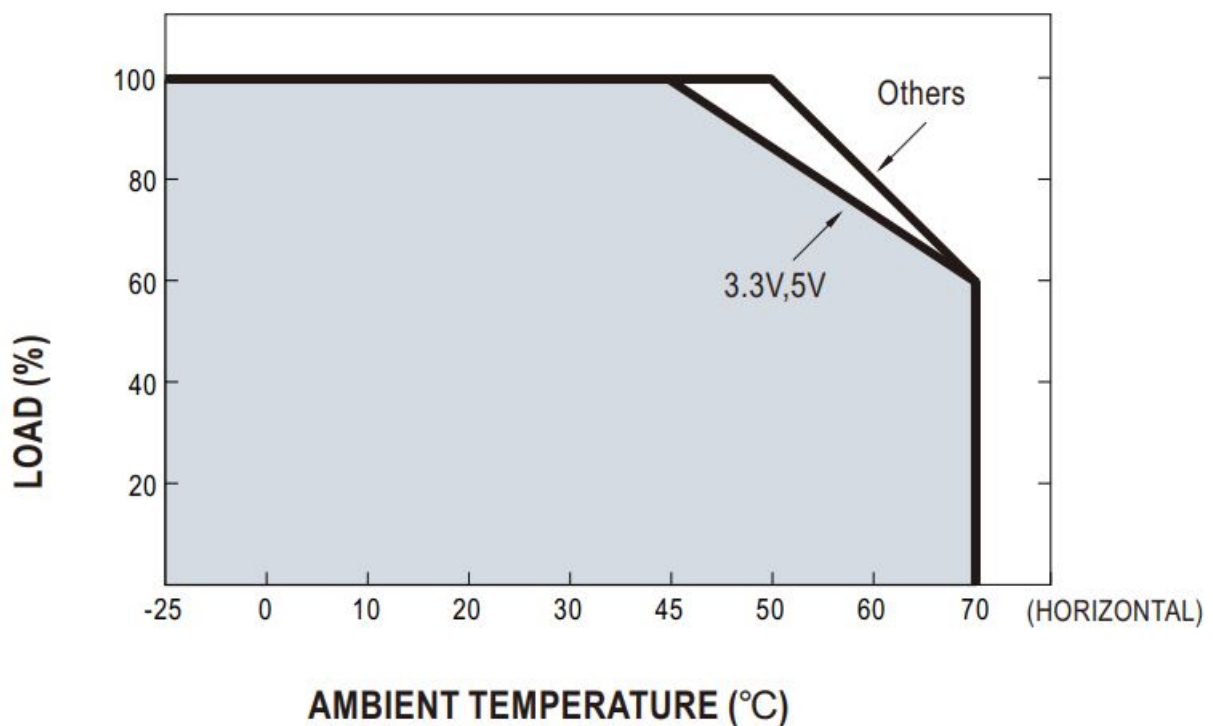
## GTIN CODE

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

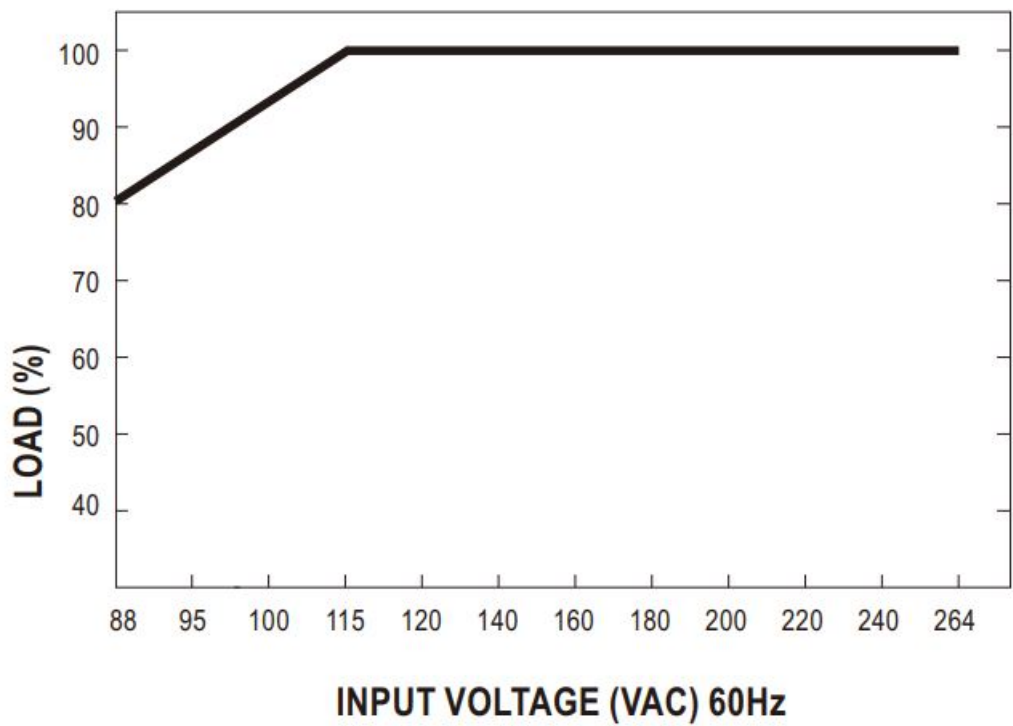
## Block Diagram




## Derating Curve



Output Derating VS Input Voltage



Documents / Resources



[MW RS-75 Series 75W Single Output Switching Power Supply](#) [pdf] Owner's 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

References

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