

**MEAN WELL**

**PS-05 Series 5W Single  
Output Switching Power**



# MEAN WELL PS-05 Series 5W Single Output Switching Power Supply Owner's Manual

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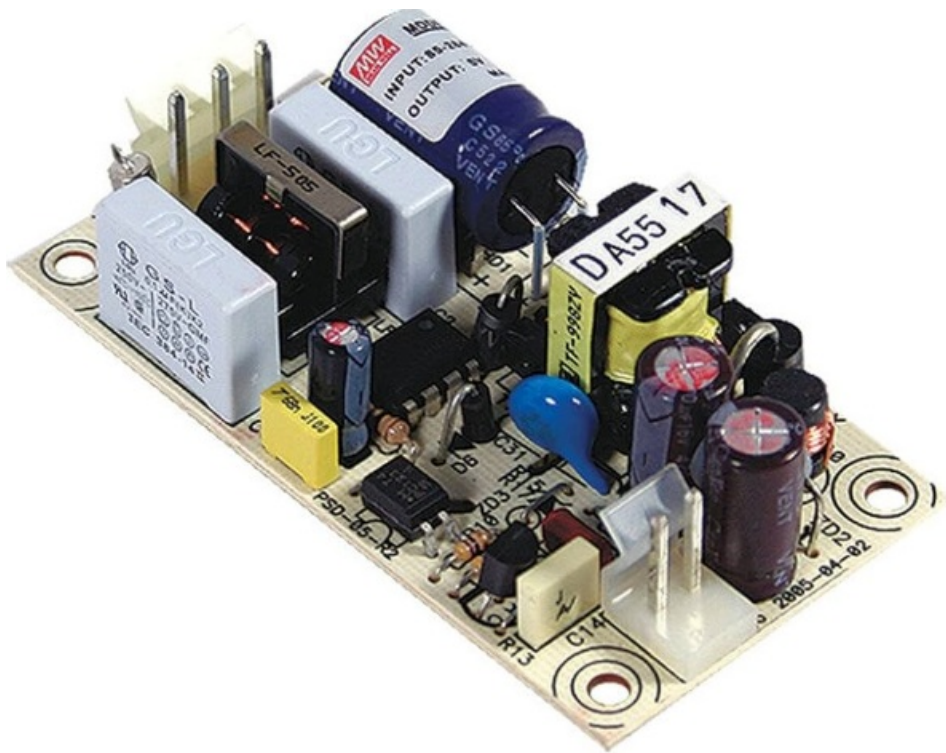


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**MEAN WELL PS-05 Series 5W Single Output Switching Power Supply**



## Product Information

### Specifications:

- **Model:** PS-05 series
- **Output Power:** 5W
- **Output Type:** Single
- **Input Voltage:** Universal AC input / Full range
- **Leakage Current:** Low

MODEL		PS-05-5	PS-05-12	PS-05-15	PS-05-24	PS-05-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	48V
	RATED CURRENT	1A	0.45A	0.35A	0.22A	0.11A
	CURRENT RANGE	0 ~ 1.2A	0 ~ 0.5A	0 ~ 0.4A	0 ~ 0.25A	0 ~ 0.125A
	RATED POWER	5W	5.4W	5.25W	5.28W	5.28W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	120mVp-p	200mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%

	<b>LOAD REGULATION</b>	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%
	<b>SETUP, RISE TIME</b>	1000ms, 20ms				
	<b>HOLD UP TIME(Typ.)</b>	100ms at full load				
<b>INPUT</b>	<b>VOLTAGE RANGE</b>	85 ~ 264VAC      120 ~ 370VDC				
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz				
	<b>EFFICIENCY(Typ.)</b>	70%	75%	75%	76%	76%
	<b>AC CURRENT (Typ.)</b>	0.15A/115VAC      0.07A/230VAC				
	<b>INRUSH CURRENT (Typ.)</b>	COLD START 30A/230VAC				
	<b>LEAKAGE CURRENT</b>	<0.5mA / 240VAC				
<b>PROTECTION</b>	<b>OVERLOAD</b>	Above 105% rated output power				
		Protection type : Hiccup mode, recovery automatically after fault condition is removed				
	<b>OVERVOLTAGE</b>	5.75 ~ 6.75V	13.8 ~ 16.2V	17.2 ~ 20.2V	27.6 ~ 32.4V	55.2 ~ 64.8V
	<b>OVER TEMPERATURE</b>	Hiccup mode, recovery automatically after fault condition is removed				
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	-10 ~ +60°C (Refer to "Derating Curve")				
	<b>WORKING HUMIDITY</b>	20 ~ 90% RH non-condensing				
	<b>STORAGE TEMP., HUMIDITY</b>	-20 ~ +85°C, 10 ~ 95% RH				
	<b>TEMP. COEFFICIENT</b>	±0.05%/°C (0 ~ 50°C)				
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
	<b>SAFETY STANDARDS</b>	TUV BS EN/EN62368-1,EAC TP TC 004 approved, IEC62368-1 CB approved by TUV				
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3KVAC				

<b>SAFETY &amp; EMC</b>  (Note 4)	<b>ISOLATION RESISTANCE</b>	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
	<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020
	<b>HARMONIC CURRENT</b>	Compliance to BS EN/EN61000-3-2,-3
	<b>EMS IMMUNITY</b>	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020
<b>OTHERS</b>	<b>MTBF</b>	6873.2K hrs min. Telcordia SR-332 (Bellcore) ; 1271.1K hrs min. MIL-HDB K-217F (25°C)
	<b>DIMENSION</b>	75*40*20mm (L*W*H)
	<b>PACKING</b>	0.05Kg; 120pcs/6.25Kg/0.56CUFT
<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 0.1μF &amp; 47μF parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. 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>5. 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><b>Product Liability Disclaimer:</b> For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>	

## Product Usage Instructions:

### Features:

- Universal AC input / Full range
- Low leakage current <0.5mA
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- 100% full load burn-in test
- Fix switching frequency at 67KHz
- Low cost
- High reliability

- 2 years warranty

### GTIN CODE

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

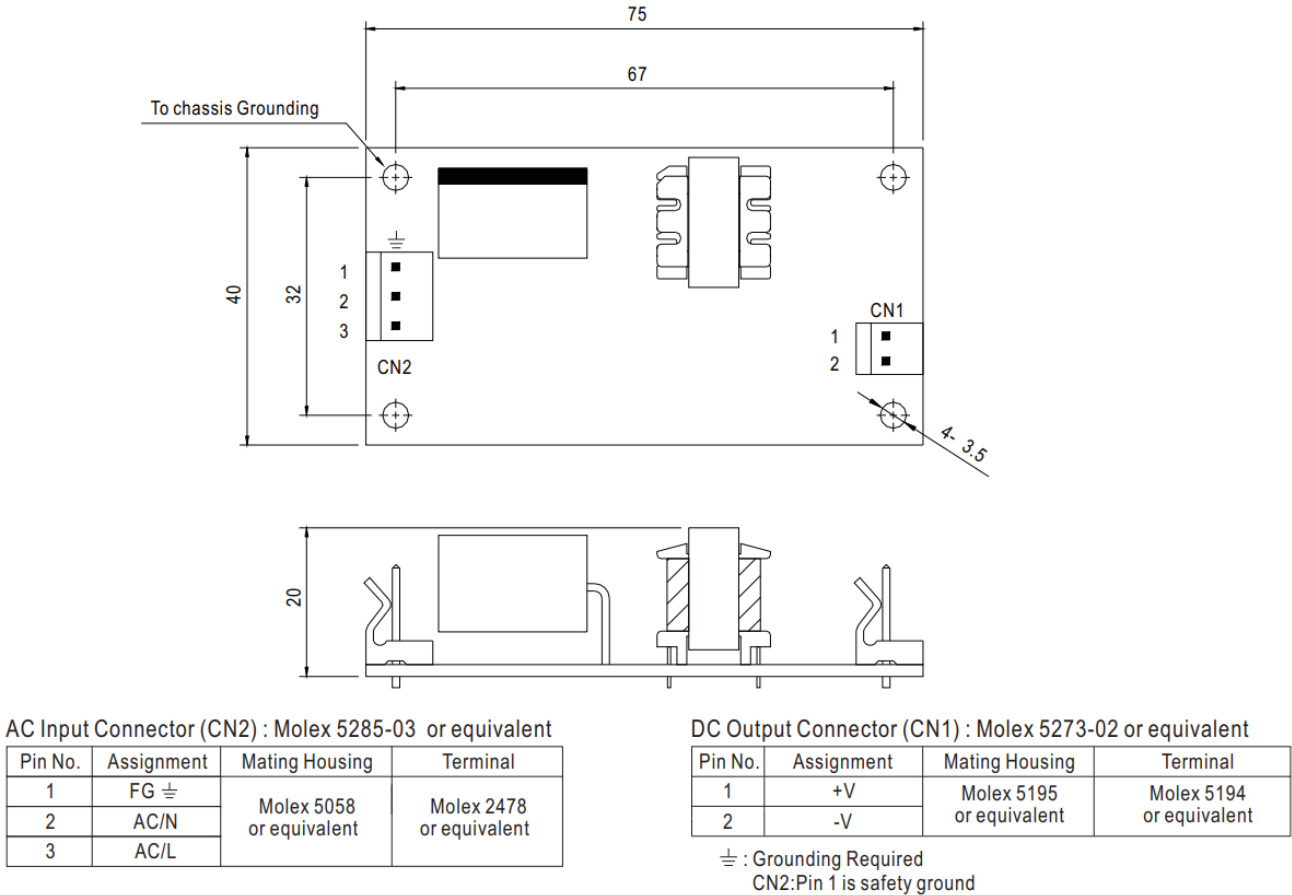
### Installation:

1. Ensure the power supply is disconnected from the power source.
2. Connect the input terminals to the AC power source following the input voltage requirements.
3. Connect the output terminals to the device requiring power.

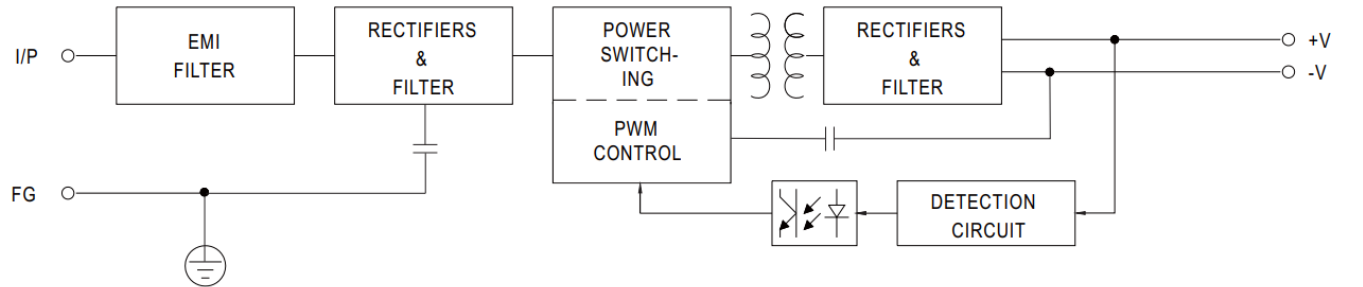
### Operation:

1. Once installed, switch on the power supply using the designated power switch.
2. Verify that the connected device is receiving power and functioning correctly.

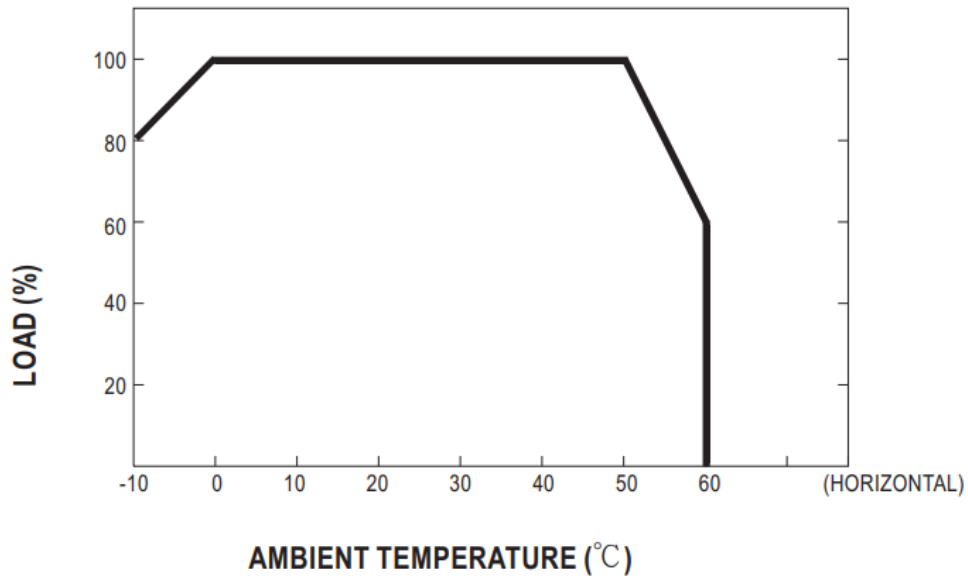
### Mechanical Specification



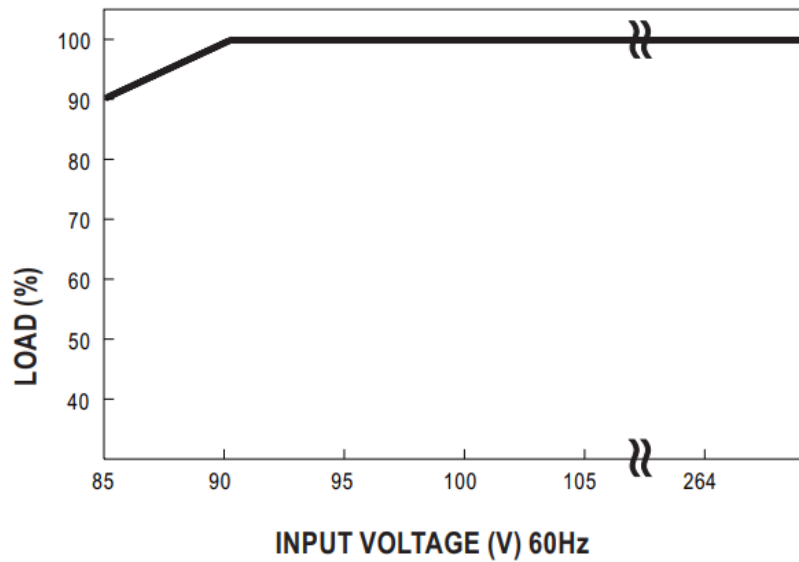
### Block Diagram



### Derating Curve



### Static Characteristics



### Maintenance:

1. Regularly check for any signs of damage or wear on the power supply unit.
2. Keep the power supply unit in a well-ventilated area to prevent overheating.

### Troubleshooting:

If the power supply unit fails to operate or there are issues with the output power, consult a qualified technician for assistance.



## Frequently Asked Questions

**Q: What should I do if the power supply gets overheated?**

A: If you notice the power supply unit becoming overheated, immediately disconnect it from the power source and allow it to cool down before attempting to use it again. Ensure proper ventilation around the unit to prevent overheating.

**Q: Can I use the power supply with devices that require higher output power?**

A: No, it is essential to match the output power of the power supply with the requirements of the connected device to prevent damage or malfunction.

## Documents / Resources



[MEAN WELL PS-05 Series 5W Single Output Switching Power Supply](#) [pdf] Owner's Manual

PS-05-5, PS-05 Series 5W Single Output Switching Power Supply, PS-05 Series, 5W Single Output Switching Power Supply, Single Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply, Power Supply, Supply

## References

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

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