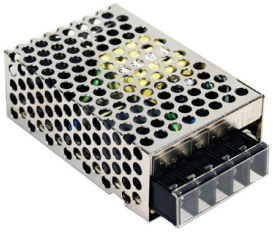
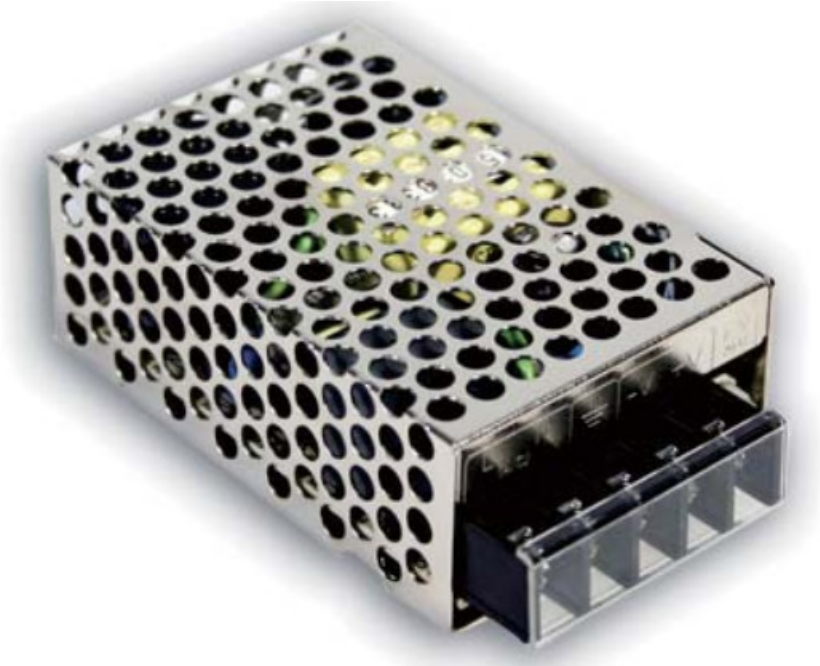


MEAN WELL RS-25 Series Single Output Switching Power Supply Owner's Manual

25W Single Output Switching Power Supply
RS-25 series



GTIN CODE MW Search
https://www.meanwell.com/serviceGTIN.aspx

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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 105t long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70t
- Withstand 5G vibration test
- No load power consumption<0.5W
- High efficiency, long life and high reliability
- 3 years warranty

User's Manual

https://www.meanwell.com/Upload/PDF/Enclosed_Type_EN.pdf

IS13252 AS/NZS62368-1 UL62368-1 GB4943.1 BS EN/EN62368-1 R33100 RoHS TPTC004 IEC62368-1

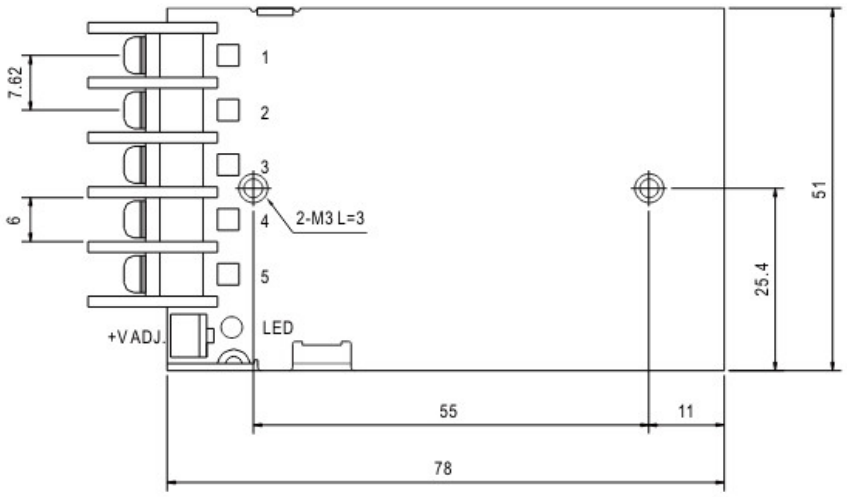
SPECIFICATION

MODEL		RS•25-3.3	RS•25•5	RS•25•12	RS•25•15	RS•25-24	RS-25-48
	DC VOLTAGE	3.3V	5V	12V	15V	24V	48V
	RATED CURRENT	6A	5A	2.1A	1.7A	1.1A	0.57A
	CURRENT RANGE	0 – 6A	0 – 5A	0 – 2.1A	0 – 1.7A	0 – 1.1A	0 – 0.57A

OUTPUT	RATED POWER	19.8W	25W	25.2W	25.5W	26.4W	27.36W
	RIPPLE & NOISE (max.) Natal	80mVp-p	BOmVp-p	120mVp-p	120mVp-p	120mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	2.85 – 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%
	LOAD REGULATION Note.3	±2.0%	± 1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1800ms, 23ms/230VAC 4000ms, 30ms/115VAC at full load					
	HOLD UP TIME (Typ.)	80ms/230VAC 14ms/115VAC at full load					
INPUT	VOLTAGE RANGE	88 – 264VAC 125 – 373VDC (Withstand 300VAC surge for 5sec. Without damage)					
	FREQUENCY RANGE	47 – 63Hz					
	EFFICIENCY(Typ.)	74.%	179.%	182.%	184.%	I86%	I85%
	AC CURRENT (Typ.)	0.7A/115VAC 0.4A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 45A/230VAC					
	LEAKAGE CURRENT	<2mA/ 240VAC					
PROTECTION	OVERLOAD	110 -180% rated output power					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	3.8 – 4.45V	I 5.75 – 6.75V	1 13.8 – 16.2V	1 17.25 – 20.25V	I 27.6 – 32.4V I	55.2 – 64.8 V
		Protection type : Shut off o/p voltage, damping by zener diode					
ENVIRONMENT	WORKING TEMP.	-20 – +70t (Refer to ‘Derating Curve’)					
	WORKING HUMIDITY	20 – 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 – +85t , 10 – 95% RH					
	TEMP. COEFFICIENT	±0.03%1°C (0 – 50°C)					

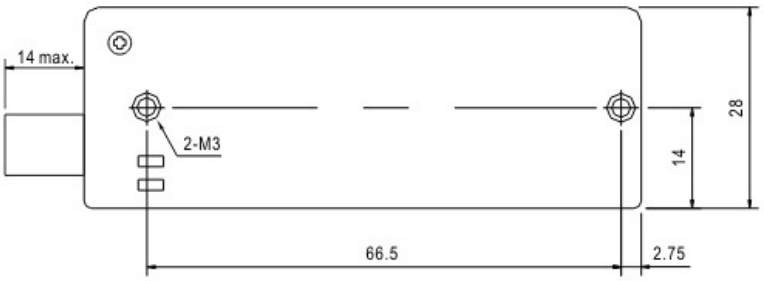
	VIBRATION	10 – 500Hz. 5G 10min./1cycle. period for 60min. each along X. Y, Z axes
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL62368-1, TUV BS EN1EN62368-1 , AS/NZS 62368.1, EAC TP TC 004, CCC 06 4943.1, BSMI CNS14336-1, BIS IS13252(Part1):201011EC 60950-1: 2005 approved
	WITHSTAND VOLTAGE	UP-0/P:3KVAC UP-FG:2KVAC 0/P-FG:0.5KVAC
	ISOLATION RESISTANCE	11P-0/P, UP-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,G69 254 class 6.GB17625.1, EAC TP TC 020, CNS13438 Class B
	EMC IMMUNITY	Compliance to 6S EN/EN61000-4-2,3,4,5,6,8,11, BS EN1EN55035, light industry l evel, EAC TP TC 020
OTHERS	MTBF	3992.0K hrs min. Telcordia SR-332 (Bellcore) ; 663.3K firs min. MIL-HDBK-217F (25t)
	DIMENSION	78*51’28mm (L*W•H)
	PACKING	0.2Kg; 60pcs/13Kg10.46CUFT
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 0.1 rt F & 47 If F parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Line regulation is measured from low line to high Me at rated load. 5. Load regulation is measured from 0% to 100% rated load. 6. The power sum 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://Awnv.meanwell.com//Upbad/PDF/EMIfitatement_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 Disdains. : For detailed information, please refer to **https://wvmmeanwell.com/serviceDisciaimeraspx**	

Mechanical Specification

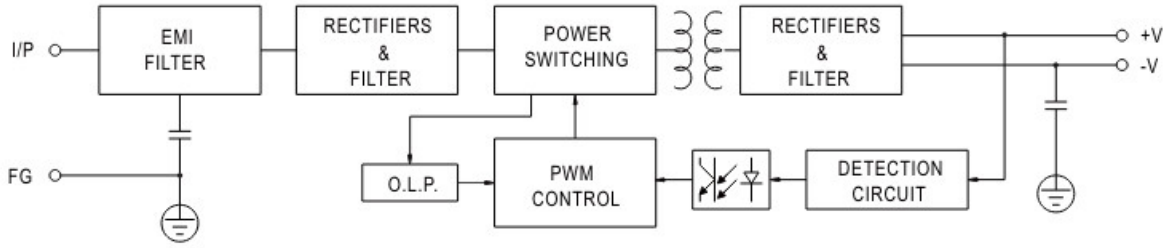


Terminal Pin No. Assignment

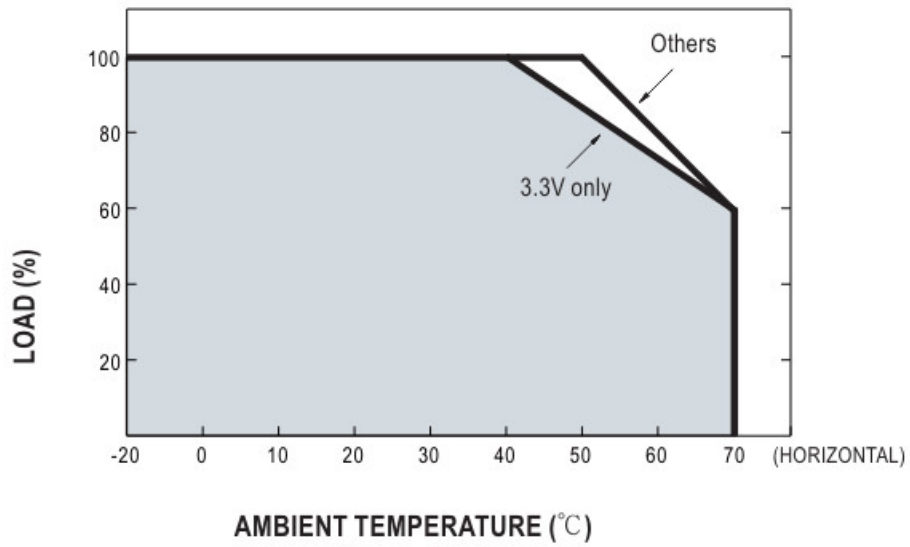
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG ⏚		



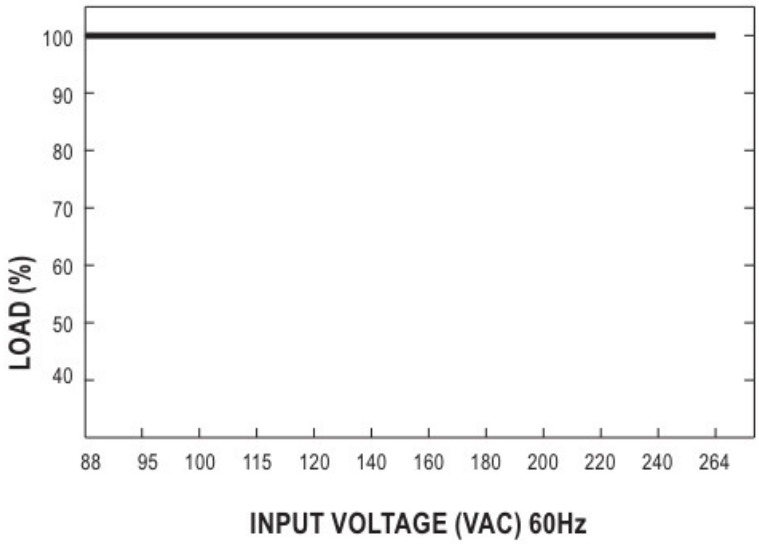
Block Diagram



Derating Curve



Output Derating VS Input Voltage



Documents / Resources

	MEAN WELL RS-25 Series Single Output Switching Power Supply [pdf] Owner's Manual RS-25 Series Single Output Switching Power Supply, RS-25 Series, Single Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply, Power Supply, Supply

References

- User Manual