

100W Single Output Switching Power Supply

RS-100 series



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
- 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







SPECIFIC	PECIFICATION WODEL RS-100-3.3		
MODEL		RS-100-3.3	

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

O. LO. 10	ATION	AS/NZS62368-1 UL62368-1 BS EN/EN62368-1 IEC62368-1 TPTC004						
MODEL		RS-100-3.3	RS-100-5	RS-100-12	RS-100-15	RS-100-24	RS-100-48	
	DC VOLTAGE	3.3V	5V	12V	15V	24V	48V	
	RATED CURRENT	20A	16A	8.5A	7A	4.5A	2.3A	
	CURRENT RANGE	0 ~ 20A	0 ~ 16A	0 ~ 8.5A	0 ~ 7A	0 ~ 4.5A	0 ~ 2.3A	
OUTPUT	RATED POWER	66W	80W	102W	105W	108W	110.4W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	3.2V ~ 3.5V	4.75 ~ 5.5V	11.4 ~ 13.2V	14.25 ~ 16.5V	22.8 ~ 26.4V	45.6 ~ 52.8V	
	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.5	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	500ms, 20ms/230VA	C 1200ms, 30ms	s/115VAC at full load		•	•	
	HOLD UP TIME (Typ.)	95ms/230VAC 17ms/115VAC at full load						
	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)						
INPUT	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	74%	77%	81%	82%	84%	84%	
	AC CURRENT (Typ.)	2.5A/115VAC 1	.5A/230VAC	'		·	·	
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
	LEAKAGE CURRENT	<2mA / 240VAC						
		110 ~ 150% rated output power						
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION		3.8 ~ 4.45V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	55.2 ~ 64.8V	
	OVER VOLTAGE	Protection type : Hic	cup mode, recovers a	utomatically after faul	t condition is removed			
	WORKING TEMP.	Protection type: Hiccup mode, recovers automatically after fault condition is removed -25 ~ +70°C (Refer to "Derating Curve")						
ļ	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	· ·						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004 approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
(Note 6)	EMC EMISSION	Compliance to BS EI	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						
	MTBF	3196.6K hrs min. Telcordia SR-332 (Bellcore) ; 526.7K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	159*97*38mm (L*W*H)						
	PACKING	0.6Kg; 24pcs/15.4Kg/0.83CUFT						
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. 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. 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. 8. 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(6500 means).							

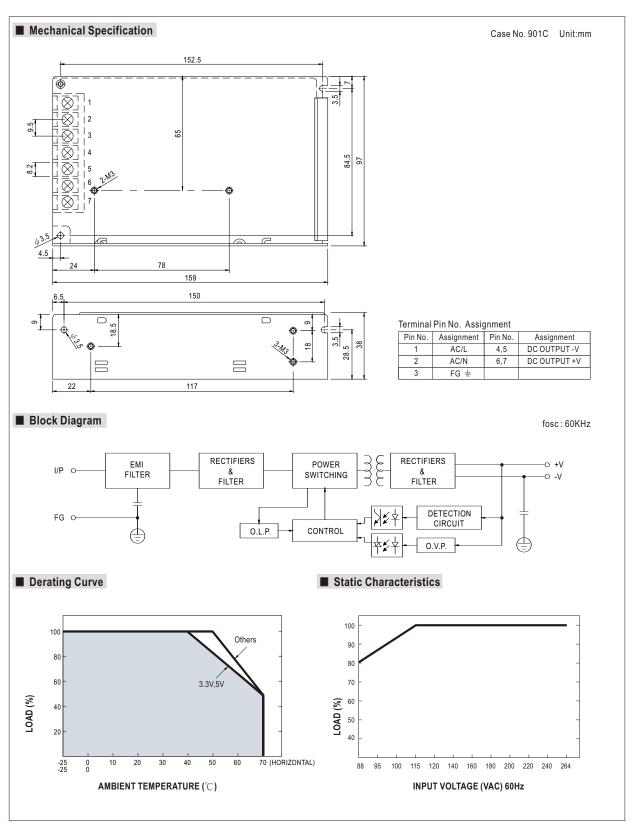
File Name:RS-100-SPEC 2022-02-28





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