

- Dimension -179 * 99 * 30 mm 7.05 * 3.90 * 1.18 inch

























Features

- · Universal AC input / Full range
- · Built-in active PFC function
- · High efficiency up to 88%
- · Cooling by free air convection
- · Built-in remote ON-OFF control
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- · LED indicator for power on
- · 3 years warranty

Applications

- · Factory control or automation apparatus
- Test and measurement instrument
- · Laser related machine
- Burn-in facility
- · RF application

Description

RSP-100 is a 100W single output enclosed type AC/DC power supply. This series operates for 85~264VAC input voltage and offers the models with the DC output mostly demanded from the industry. Each model is cooled by free air convection, working for the temperature up to 70°C.

■ Model Encoding / Order Information





SPECIFICATION

MODEL		RSP-100-3.3	RSP-100-5	RSP-100-7.5	RSP-100-12	RSP-100-13.5	RSP-100-15	RSP-100-24	RSP-100-27	RSP-100-48	
	DC VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V	
ОИТРИТ	RATED CURRENT	20A	20A	13.5A	8.5A	7.5A	6.7A	4.2A	3.8A	2.1A	
	CURRENT RANGE	0 ~ 20A	0 ~ 20A	0 ~ 13.5A	0 ~ 8.5A	0 ~ 7.5A	0~6.7A	0 ~ 4.2A	0 ~ 3.8A	0 ~ 2.1A	
	RATED POWER	66W	100W	101.25W	102W	101.25W	100.5W	100.8W	102.6W	100.8W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	3.14 ~ 3.63V	4.75 ~ 5.5V	7.13 ~ 8.25V	11.4 ~ 13.2V	12.8 ~ 14.9V	14.3 ~ 16.5V	22.8 ~ 26.4V	25.7 ~ 29.7V	45.6 ~ 52.8V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	600ms, 30ms at full load									
	HOLD UP TIME (Typ.)	16ms at full load									
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC									
INPUT	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.93/230VAC PF>0.98/115VAC at full load									
	EFFICIENCY (Typ.)	83%	86%	87%	86%	86.5%	87%	87%	87%	88%	
	AC CURRENT (Typ.)	1.1A/115VAC	0.55A/23	BOVAC							
	INRUSH CURRENT (Typ.)	COLD START 30A/230VAC									
	LEAKAGE CURRENT	<2mA / 240VAC									
PROTECTION		105 ~ 135% rated output power									
	Protection type: Constant current limiting, recovers automatically after fault condition is removed										
		3.63 ~ 4.46V 5.5 ~ 6.75V 8.25 ~ 10.13V 13.2 ~ 16.2V 14.85 ~ 18.23V 16.5 ~ 20.25V 26.4 ~ 32.4V 29.7 ~ 36.45V 52.8 ~ 64.8V									
	OVER VOLTAGE 3.55 \(^{2} 4.40\) 3.5 \(^{6} 0.73\) 6.25 \(^{6} 10.15\) 13.2 \(^{6} 10.25\) 16.5 \(^{6} 20.23\) 26.4 \(^{6} 32.4\) 29.7 \(^{6} 36.43\) 32.6 \(^{6} 6.25\) Protection type: Shut down o/p voltage, re-power on to recover									32.0 04.00	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
FUNCTION	REMOTE CONTROL	CN1: < 0~0.8VDC POWER ON , 4~10VDC POWER OFF									
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing									
	TEMP. COEFFICIENT	±0.05%°C (0~50°C)									
	VIBRATION	±0.05%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
	OVER VOLTAGE CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters									
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EN61558-1, EN61558-2-16, EAC TP TC 004, CCC GB4943.1, BSMI CNS14336-1 approved									
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
SAFETY &	ISOLATION RESISTANCE	I/P-O/P. I/P-FG. O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
EMC (Note 4)	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020, CNS13438, GB9254 Class B, GB17625.1									
(2.0.0 4)	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020									
	MTBF	288.5K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	179*99*30mm		DN-211F (20 C)							
	PACKING	0.52Kg; 24pcs	,	^I I E T							
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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) Strongly recommended that external output capacitance should not exceed 5000uF. (Only for: RSP-100-3.3/-5/-7.5) 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). 										



