

Dimension

230 * 127 * 40.5(1U) mm 9.06 * 5 * 1.59(1U) inch

































Features

- Universal AC input / Full range
- Built-in active PFC function
- · High efficiency up to 90.5%
- · Forced air cooling by built-in DC fan (Note.5)
- Built-in remote ON-OFF control / remote sense
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- 3 years warranty

Applications

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

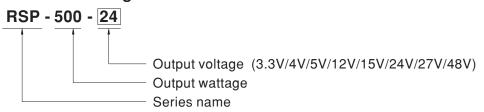
GTIN CODE

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

Description

RSP-500 is a 500W 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 the built-in fan with fan speed control, working for the temperature up to 70°C. Moreover, RSP-500 provides vast design flexibility by equipping various built-in functions such as remote ON-OFF control, remote sense, etc.

■ Model Encoding / Order Information

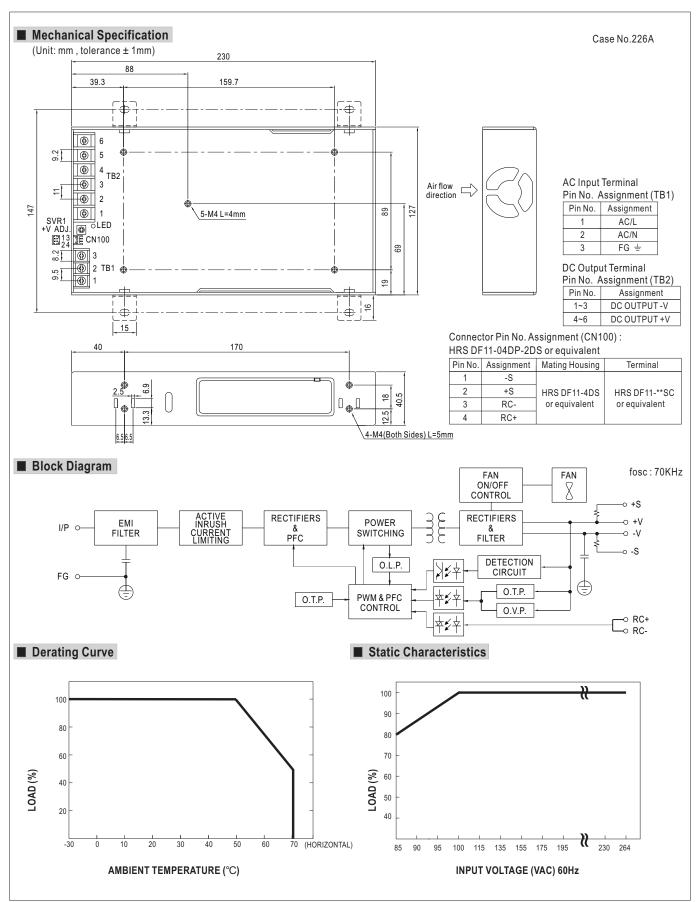




SPECIFICATION

MODEL		RSP-500-3.3	RSP-500-4	RSP-500-5	RSP-500-12	RSP-500-15	RSP-500-24	RSP-500-27	RSP-500-48		
	DC VOLTAGE	3.3V	4V	5V	12V	15V	24V	27V	48V		
ОИТРИТ	RATED CURRENT	90A	90A	90A	41.7A	33.4A	21A	18.6A	10.5A		
	CURRENT RANGE	0 ~ 90A	0 ~ 90A	0 ~ 90A	0 ~ 41.7A	0 ~ 33.4A	0 ~ 21A	0 ~ 18.6A	0 ~ 10.5A		
	RATED POWER	297W	360W	450W	500.4W	501W	504W	502.2W	504W		
	RIPPLE & NOISE (max.) Note.2		120mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p		
	VOLTAGE ADJ. RANGE	2.8 ~ 3.6V	3.6 ~ 4.3V	4.5 ~ 5.5V	10 ~ 13.2V	13.5 ~ 18V	20 ~ 26.4V	26 ~ 30V	41 ~ 56V		
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1500ms, 80ms/					20.070	20.070	20.070		
	HOLD UP TIME (Typ.)	1500ms, 80ms/230VAC 3000ms, 80ms/115VAC at full load 18ms/230VAC 14ms/115VAC at full load									
	() . ,	85 ~ 264VAC 120 ~ 370VDC									
INPUT	FREQUENCY RANGE	65~264VAC 120~370VDC 47~63Hz									
	POWER FACTOR (Typ.)										
	EFFICIENCY (Typ.)	PF>0.95/230VAC									
	AC CURRENT (Typ.)	4.2A/115VAC		1 11	1		09 /0	09.576	90.576		
	INRUSH CURRENT (Typ.)										
	LEAKAGE CURRENT	20A/115VAC 40A/230VAC									
	LEARAGE CURRENT	<2mA/240VAC									
	OVERLOAD	105 ~ 130% rate									
		,,	l .		T	cally after fault c	1	1	50.4.001/		
	OVER VOLTAGE	3.8 ~ 4.5V	4.5 ~ 5.3V	5.75 ~ 6.75V	13.8 ~ 16.2V	18.8 ~ 21.8V	27.6 ~ 32.4V	32.9 ~ 38.3V	58.4 ~ 68V		
PROTECTION		Protection type: Shut down o/p voltage, re-power on to recover									
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
		POWER ON:op	en or 0~0.8VD	C between RC+	(Pin 4)&RC-(Pir	n3) on CN100					
	REMOTE CONTROL	POWER OFF: 4~10VDC between RC+(Pin 4)&RC-(Pin3) on CN100									
FUNCTION	REMOTE SENSE	Compensate voltage drop on the load wiring up to 0.3V									
	FAN CONTROL (Typ.)	RTH2≧50°C±10°C Fan on ; RTH2≦40°C±10°C Fan off (Fan always on for 3.3~5V,Fan ON/OFF control for 12~48V)									
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY										
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	,		60min each al	ong X Y 7 ayes						
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes UL62368-1, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004, CCC GB4943.1, BSMI CNS15598-1,									
		BIS IS13252(Part1): 2010/IEC 60950-1:2005(except for 48V) 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.4)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020,GB/T 9254, CNS15936 Class B									
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2, EAC TP TC 020									
OTHERS	MTBF	1372.4K hrs min	. Telcordia S	R-332 (Bellcore)	; 187.9K hrs mir	n. MIL-HDBK-	217F (25°C)				
	DIMENSION	230*127*40.5m	m (L*W*H)								
	PACKING	1.3Kg; 9pcs/12.7	7Kg/0.7CUFT								
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 0.1 μ F & 47 μ F parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the derating curve for more details. Fan always on for 3.3~5V,Fan ON/OFF control for 12~48V. 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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 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 Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										







■ Function Description of CN100

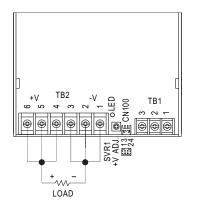
Pin No.	Function	Description
1		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.3V.
2	+S	Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.3V.
3	RC-	Return for RC+ signal input.
4	RC+	Turns the output on and off by electrical or dry contact between pin 4 (RC+) and pin 3 (RC-), 0~0.8VDC or open; Power ON, 4~10VDC; Power OFF.

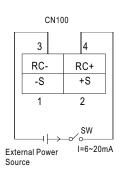
■ Function Manual

1.Remote Control

The PSU can be turned ON/OFF by using the "Remote Control" function.

Between RC-(pin3) and RC+(pin4) on CN100	PSU Status		
SW OFF (0 ~ 0.8VDC) or open	ON		
SW ON (4 ~ 10V)	OFF		





2.Remote Sense

The remote sensing compensates voltage drop on the load wiring up to $0.3\mbox{\ensuremath{V}}$

