

#### Dimension

L \* W \* H 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 / DC OK signal
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 3 years warranty

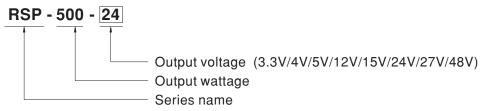
# Applications

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

# Description

RSP-500 is a 500W single output enclosed type AC/DC power supply. This series operates for  $85\sim264$ VAC 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  $70^{\circ}$ C. Moreover, RSP-500 provides vast design flexibility by equipping various built-in functions such as remote ON-OFF control, remote sense, DC OK signal, etc.

# ■ Model Encoding / Order Information

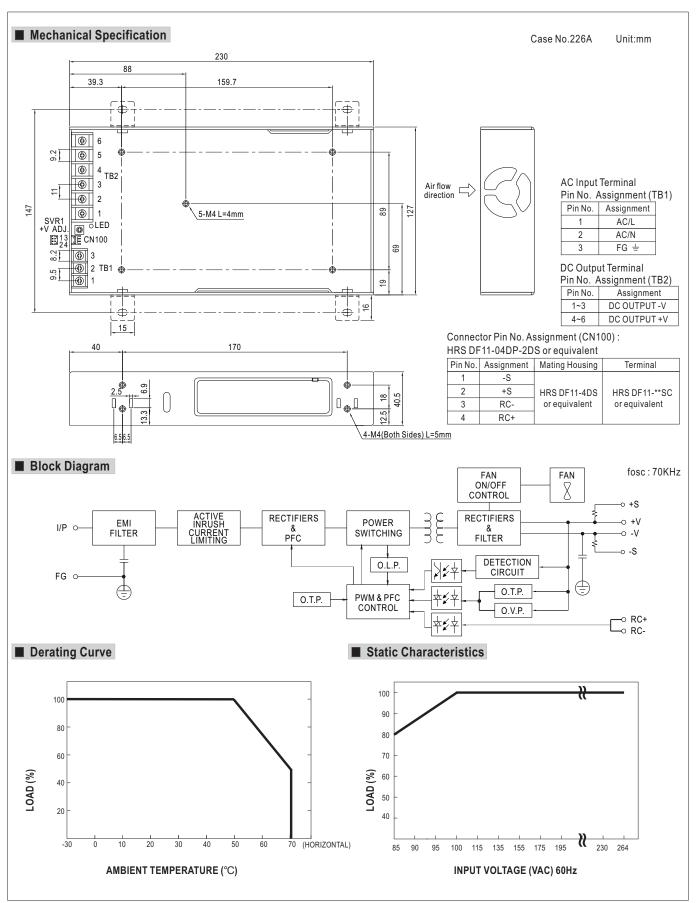




### **SPECIFICATION**

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%	±0.2%	±0.5%	±0.2%		
	SETUP, RISE TIME	1500ms, 80ms/230VAC 3000ms, 80ms/115VAC at full load									
	HOLD UP TIME (Typ.)	·									
		18ms/230VAC 14ms/115VAC at full load									
		85 ~ 264VAC 120 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
INPUT	POWER FACTOR (Typ.)	PF>0.95/230VA		8/115VAC at fu		000/	200/	20.50/	00.50/		
	EFFICIENCY (Typ.)	81%	83%	84%	88%	88%	89%	89.5%	90.5%		
	AC CURRENT (Typ.)	4.2A/115VAC 2.1 A/230VAC 5.3A/115VAC 2.65 A/230VAC									
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC									
	LEAKAGE CURRENT	<2mA/240VAC									
	OVERLOAD	105 ~ 130% rated output power									
		Protection type: Constant current limiting, recovers automatically after fault condition is removed									
	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	OVER VOLINGE	Protection type	: Shut down o/	o voltage, re-po	wer on to recove	er					
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
		POWER ON:open or 0~0.8VDC between RC+(Pin 4)&RC-(Pin3) 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	-40 ~ +85°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004, CCC GB4943.1, BSMI CNS14336-1approved									
SAFETY &	WITHSTAND VOLTAGE	ULO2368-1, TUV EN02368-1, EAC TP TC 004 , CCC GB4943.1 , BSMI CNS 14336-1approved  I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
	ISOLATION RESISTANCE										
EMC (Note.4)	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020,GB/T 9254, CNS13438 Class B									
(11010.4)	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, criteria A, EAC TP TC 020									
	MTBF										
OTHERS		187.7K hrs min.		.111 (23 0 )							
OTHERS	DIMENSION	230*127*40.5m	, ,								
	PACKING	1.3Kg; 9pcs/12.	/Kg/0./CUF1								
NOTE	2. Ripple & noise are measur 3. Tolerance : includes set up 4. Derating may be needed up 5. Fan always on for 3.3~5V, 6. The power supply is consistill meets EMC directives. (as available on http://www.	pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  Passured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  Bet up tolerance, line regulation and load regulation.  Bed under low input voltages. Please check the derating curve for more details.  SV,Fan ON/OFF control for 12~48V.  Considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it ives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."  WWW.meanwell.com)  For the final equipment must be re-confirmed that it ives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."  WWW.meanwell.com)  For the final equipment must be re-confirmed that it ives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."  WWW.meanwell.com)									







### ■ Function Description of CN100

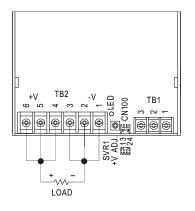
Pin No.	Function	Description
1		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.3V.
2		Positive sensing. The +S signal should be connected 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.

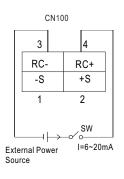
### ■ Function Manual

#### 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  $0.3\mbox{\ensuremath{V}}$ 

