

500W Single Output with PFC Function

RSP-500 series



■ Features :

- *Universal AC input / Full range
- *Built-in active PFC function, PF>0.95
- *Protections: Short circuit / Overload / Over voltage / Over temperature
- *Forced air cooling by built-in DC Fan (Note5)
- *1U low profile 40.5mm
- High efficiency up to 90.5%
- *Built-in remote ON-OFF control
- *Built-in remote sense function
- *LED indicator for power on
- *3 years warranty

SPECIFICATION

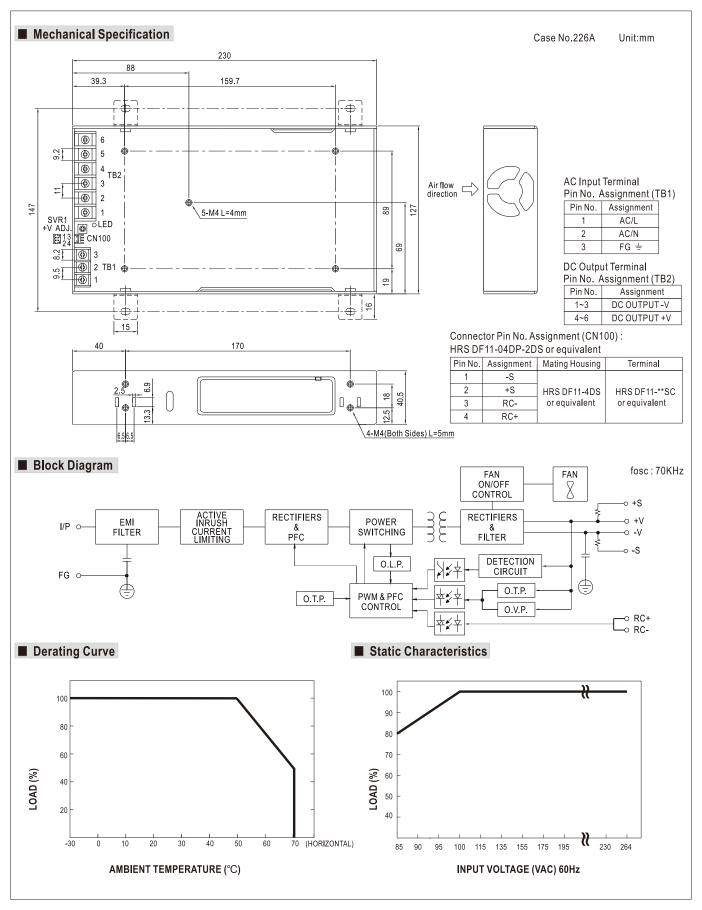


	DCVOLTACE										
	DC VOLTAGE	3.3V	4V	5V	12V	15V	24V	27V	48V		
	RATED CURRENT	90A	90A	90A	41.7A	33.4A	21A	18.6A	10.5A		
	CURRENT RANGE	0 ~ 90A	0 ~ 90A	0 ~ 90A	0 ~ 41.7A	0 ~ 33.4A	0 ~ 21A	0 ~ 18.6A	0 ~ 10.5A		
	RATED POWER	297W	360W	450W	500.4W	501W	504W	502.2W	504W		
ОИТРИТ	RIPPLE & NOISE (max.) Note.2	120mVp-p	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						20.070	20.070	201070		
	HOLD UP TIME (Typ.)	1500ms, 80ms/230VAC 3000ms, 80ms/115VAC at full load 18ms/230VAC 14ms/115VAC at full load									
INPUT	() ,										
		85 ~ 264VAC 120 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230VA		8/115VAC at ful		1	1	T	1		
	EFFICIENCY (Typ.)	81%	83%	84%	88%	88%	89%	89.5%	90.5%		
	AC CURRENT (Typ.)	4.2A/115VAC		5.3A/115VAC	2.65 A/230	VAC					
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC									
	LEAKAGE CURRENT	<2mA/240VAC									
	OVERLOAD	105 ~ 130% rated output power									
		Protection type	: Constant curre	ent limiting, rec	overs automatic	ally after fault c	ondition is remo	ved			
		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 VOLTAGE	Protection type	: Shut down o/p	voltage, re-pov	ver on to recove	r					
	OVER TEMPERATURE	Shut down o/p									
	REMOTE CONTROL	POWER ON:open or 0~0.8VDC between RC+(Pin 4)&RC-(Pin3) on CN100 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									
LINVIRONMENT	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION			60min each ale	ang X V 7 ayas						
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, 60min, each along X, Y, Z axes UL60950-1, TUV EN60950-1, EAC TP TC 004, CCC GB4943.1, BSMI CNS14336-1approved									
	WITHSTAND VOLTAGE	· · · · · · · · · · · · · · · · · · ·				I , BOWN CNOTA	330-Tapproveu				
OAI EII G		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 Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020,GB/T 9254, CNS13438 Class B									
(Note 4)	EMC EMISSION		•								
	EMC IMMUNITY	100 0141			5024, EN61000	-b-2, EN61204-3	3 heavy industry	ievei, criteria A	, EAU IP IC (
	MTBF	187.7K hrs min.	MIL-HDBK-2	17F (25°C)							
OTHERS	DIMENSION	230*127*40.5m									
	PACKING	1.3Kg; 9pcs/12.3	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 0.1uf & 47uf 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." 										
	7. The ambient temperature de	erating of 3.5°C/	1000m with fanl	ess models and	I of 5°C/1000m	with fan models		titude higher tha			



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■ Function Description of CN100

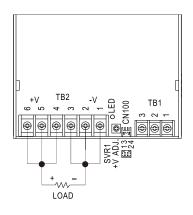
Pin No.	Function	Description	
1		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.3V.	
2		Positive sensing. The +S signal should be connected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

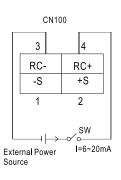
■ Function Manual

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

