

Dimension

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

























RoHS CNS14336-1

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

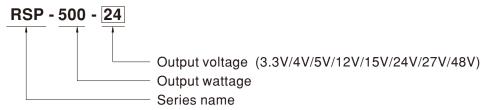
Applications

- · 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 85~264VAC 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, DC OK signal, etc.

■ Model Encoding / Order Information

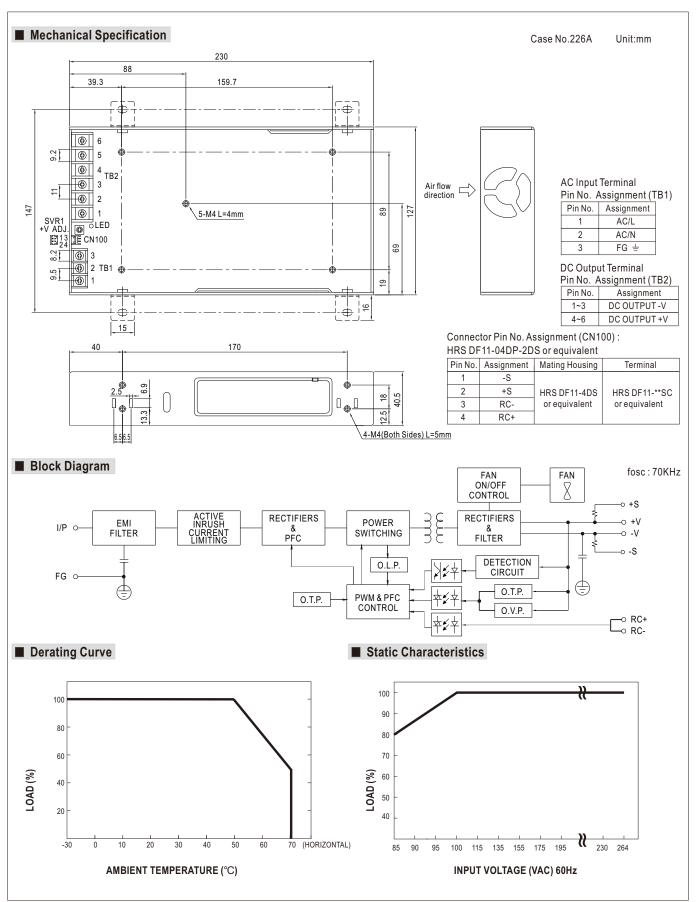




SPECIFICATION

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%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1500ms, 80ms/			15VAC at full loa			1=2.27	1		
	HOLD UP TIME (Typ.)	18ms/230VAC 14ms/115VAC at full load									
	, , , ,	85 ~ 264VAC 120 ~ 370VDC									
INPUT	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load									
	EFFICIENCY (Typ.)	81%	83%	84%	88%	88%	89%	89.5%	90.5%		
	AC CURRENT (Typ.)	4.2A/115VAC			2.65 A/230		0070	00.070	00.070		
	INRUSH CURRENT (Typ.)	4.2A/115VAC 2.1 A/230VAC 5.3A/115VAC 2.65 A/230VAC 20A/115VAC 40A/230VAC									
	LEAKAGE CURRENT										
	LLANAGE CONNENT	<2mA / 240VAC 105 ~ 130% rated output power									
	OVERLOAD				overe outemetic	ally ofter fault o	andition is roma	wad			
		3.8 ~ 4.5V	4.5 ~ 5.3V	5.75 ~ 6.75V	13.8 ~ 16.2V	18.8 ~ 21.8V	ondition is remo	32.9 ~ 38.3V	58.4 ~ 68V		
DDOTEOTION	OVER VOLTAGE				1		21.0 ~ 32.40	32.9 ~ 30.34	30.4 ~ 00V		
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									
	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									
	TEMP. COEFFICIENT	±0.03%/°C (0 ~	50°C)								
	VIBRATION	10 ~ 500Hz, 2G	10min./1cycle,	60min. each al	ong X, Y, Z axes						
SAFETY &	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004 , CCC GB4943.1 , BSMI CNS14336-1approved									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG: 0/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, CNS13438 Class B									
. ,	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, BS EN/EN61000-6-2, criteria A, EAC TP TC 020									
OTHERS	MTBF	187.7K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	230*127*40.5mm (L*W*H)									
	PACKING	1.3Kg; 9pcs/12.									
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. Derating may be needed under low input voltages. Please check the derating curve for more details. 5. Fan always on for 3.3~5V,Fan ON/OFF control for 12~48V. 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. 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).										







■ Function Description of CN100

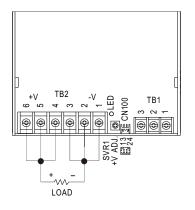
Pin No.	Function	Description
1		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.3V.
2		Positive sensing. The +S signal should be connected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

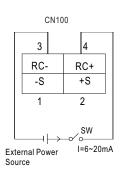
■ Function Manual

1.Remote Control

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

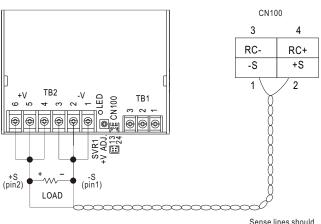
Between RC-(pin3) and RC+(pin4) on CN100	PSU Status
SW OFF (0 ~ 0.8VDC) or open	ON
SW ON (4 ~ 10V)	OFF





2.Remote Sense

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



Sense lines should be twisted in pairs

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Switching Power Supplies category:

Click to view products by Mean Well manufacturer:

Other Similar products are found below:

70841011 73-551-0005 73-551-0048 PS3E-B12F PS3E-E12F AAD600S-4-OP R22095 KD0204 9021 LDIN100150 LPM000-BBAR-01 LPX17S-C EVS57-10R6/R FP80 FRV7000G 22929 PS3E-F12F CQM1IA121 40370121900 VI-PU22-EXX 40370121910 LDIN5075 LPM615-CHAS LPX140-C 09-160CFG 70841025 VPX3000-CBL-DC LPM000-BBAR-05 LPM000-BBAR-08 LPM124-OUTA1-48 LPM000-BBAR-07 LPM109-OUTA1-10 LPM616-CHAS 08-30466-1055G 08-30466-2175G 08-30466-2125G DMB-EWG TVQF-1219-18S 6504-226-2101 CQM1IPS01 SP-300-5 CQM1-IPS02 VI-MUL-ES 22829 08-30466-0065G VI-RU031-EWWX 08-30466-0028G VI-LUL-EU EP3000AC48INZ VP-C2104853