

Наличие и актуальные цены на

RSP-1000-15

https://www.mean-well.ru/store/RSP-1000-15/



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L	*	W	*	н		
295	*	127	*	41 (1U)	mm	
11.6	*	5	*	1.61(1U)	inch	







Features

- Universal AC input / Full range
- · Built-in active PFC function
- High efficiency up to 90%
- Forced air cooling by built-in DC fan
- Output voltage programmable
- Active current sharing up to 4000W (3+1)
- Built-in remote ON-OFF control / remote sense / auxiliary power / DC OK signal
- Protections: Short circuit / Overload / Over voltage
 / Over temperature
- Optional conformal coating
- 5 years warranty

Applications

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

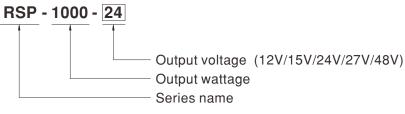
GTIN CODE

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

Description

RSP-1000 is a 1KW single output enclosed type AC/DC power supply with 1U low profile. This series operates for 90~264VAC 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 60° C. Moreover, RSP-1000 provides vast design flexibility by equipping various built-in functions such as the output programming, active current sharing, remote ON-OFF control, auxiliary power, etc.

Model Encoding / Order Information

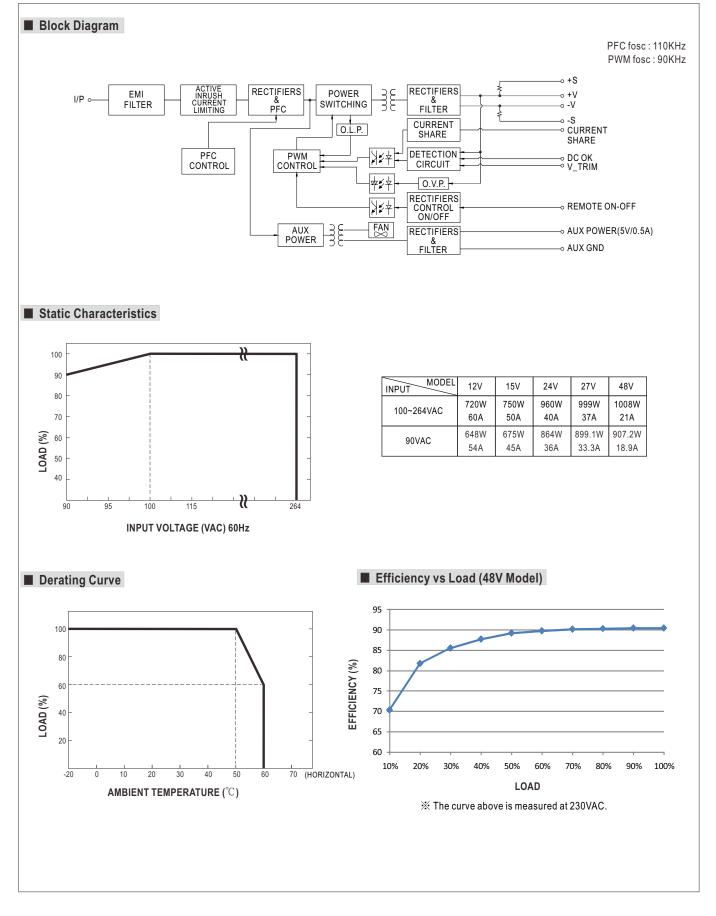




SPECIFICATION

MODEL		RSP-1000-12 RS	SP-1000-15	RSP-1000-24	RSP-10	00-27	RSP-1000-48
	DC VOLTAGE	12V 15	δV	24V	27V		48V
	RATED CURRENT	60A 50)A	40A	37A		21A
	CURRENT RANGE	0~60A 0~	~ 50A	0~40A	0~37A		0~21A
	RATED POWER	720W 75	50W	960W	999W		1008W
	RIPPLE & NOISE (max.) Note.2	150mVp-p 15	50mVp-p	150mVp-p	150mV)-p	150mVp-p
OUTPUT	VOLTAGE ADJ. RANGE		3.5 ~ 16.5V	20~26.4V	24 ~ 30	•	43 ~ 55V
	VOLTAGE TOLERANCE Note.3	±1.0% ±	1.0%	±1.0%	±1.0%		±1.0%
	LINE REGULATION		:0.5%	±0.5%	±0.5%		±0.5%
	LOAD REGULATION		:0.5%	±0.5%	±0.5%		±0.5%
	SETUP, RISE TIME	300ms, 50ms at full load					
	HOLD UP TIME (Typ.)		5VAC at full loa	d			
	,	90 ~ 264VAC 127 ~ 370		u			
		90 ~ 284 VAC 127 ~ 370 47 ~ 63Hz					
			AC at full land				
NDUT	POWER FACTOR (Typ.)		VAC at full load	000/	0.00/		000/
NPUT	EFFICIENCY (Typ.)	83% 85		88%	88%		90%
	AC CURRENT (Typ.)	12A/115VAC 6A/230VA					
	INRUSH CURRENT (Typ.)	25A/115VAC 40A/230V	AC				
	LEAKAGE CURRENT	<2.0mA/240VAC					
		105 ~ 125% rated output pov	ver				
	OVERLOAD	Protection type : Constant cur	rent limiting, reco	overs automatically after	ault condition is rem	loved	
PROTECTION		13.8 ~ 16.8V 17	7~20.5V	27.6 ~ 32.4V	31 ~ 36	.5V	56.6~66.2V
	OVER VOLTAGE	Protection type : Shut down of	o/p voltage, re-p	ower on to recover	·		
	OVER TEMPERATURE	Shut down o/p voltage, recov	vers automatical	ly after temperature goe	s down		
	OUTPUT VOLTAGE PROGRAMMABLE(PV)			, , ,		ease refer to	the Function Manual.
	CURRENT SHARING	Up to 4000W or (3+1) units.	·				
	AUXILIARY POWER	5V @ 0.5A (+5%, -8%)					
UNCTION	REMOTE ON-OFF CONTROL		er OFF : onen F	Please refer to the Funct	on Manual		
	REMOTE SENSE	Compensate voltage drop or				nual	
	DC OK SIGNAL	The TTL signal out, PSU turn		$50 \text{ turn off} = 3.3 \approx 5.6 \text{ V}.$	Please refer to the	Function Ma	nuai.
	WORKING TEMP.	-20 ~ +60°C (Refer to "Derat					
	WORKING HUMIDITY	20 ~ 90% RH non-condensin	•				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°℃, 10 ~ 95% RH n	on-condensing				
	TEMP. COEFFICIENT	±0.02%/°C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cyc	,	0, ,			
	SAFETY STANDARDS	UL62368-1, CSA C22.2 No			CCC GB4943.1, B	SMI CNS155	98-1, AS/NZS62368.1,
		IS13252(Part1)/IEC60950-					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2K	VAC O/P-FG:	0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100	M Ohms / 500V	DC / 25°C/ 70% RH			
		Parameter		Standard		Test Level /	Note
		Conducted		BS EN/EN55032 (CISF	R32), CNS15936	Class B	
	EMC EMISSION	Radiated		BS EN/EN55032 (CISF	R32), CNS15936	Class A	
		Harmonic Current		BS EN/EN61000-3-2			
SAFETY &		Voltage Flicker		BS EN/EN61000-3-3			
EMC		BS EN/EN55035, BS EN/EI			54 BSMI CNS13	138	
Note 5)		Parameter		Standard		Test Level /	Note
		ESD		BS EN/EN61000-4-2			/ air ; Level 2, 4KV contact
		Radiated		BS EN/EN61000-4-3		Level 3	
	EMC IMMUNITY	EFT / Burst		BS EN/EN61000-4-4		Level 3	
		Surge		BS EN/EN61000-4-5			Line-Earth ; Level 3, 2KV/Line-L
		Conducted		BS EN/EN61000-4-6		Level 3	
		Magnetic Field		BS EN/EN61000-4-8		Level 4	
		Voltage Dips and Interruption	ns	BS EN/EN61000-4-11			5 periods, 30% dip 25 penio uptions 250 periods
	MTBF	939.4K hrs min. Telcordia	SR-332 (Bellco	re) ; 116.5K hrs min.	MIL-HDBK-217F (2	5°C)	
OTHERS	DIMENSION	295*127*41mm (L*W*H)					
	PACKING	1.95Kg; 6pcs/12.7Kg/1.15Cl	JFT				
NOTE	perform these EMC tests, p(as available on https://www6. The ambient temperature de	d at 20MHz of bandwidth by tolerance, line regulation and ider low input voltages. Pleas ered a component which will te with 1mm of thickness. Th lease refer to "EMI testing of .meanwell.com//Upload/PDF,	using a 12" tw I load regulation se check the de be installed into the final equipme component por /EMI_statement fanless models	isted pair-wire terminate n. prating curve for more d o a final equipment. All ent must be re-confirme wer supplies." t_en.pdf) and of 5°C/1000m with	ed with a 0.1uf & 4 etails. the EMC tests are d that it still meets fan models for ope	7uf parallel ca been execute EMC directive erating altitude	ed by mounting the unit on es. For guidance on how to



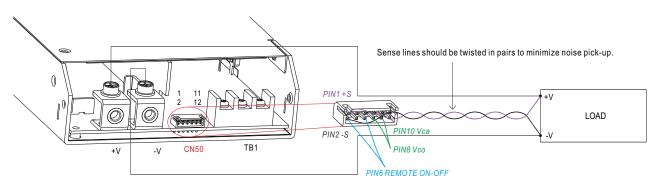




Function Manual

1.Remote Sense

% The Remote Sense compensates voltage drop on the load wiring up to 0.5V

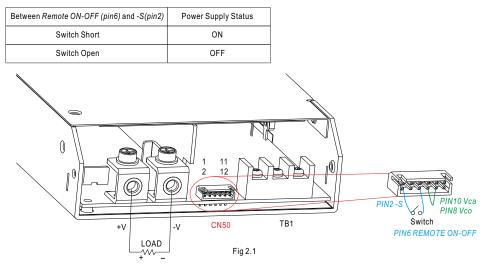


The +S signal should be connected to the positive terminal of the load whereas -S signal to the negative terminal.
 This configuration is based on the assumption the Output Voltage Programming is not activated and power supply is ON.

Fig 1.1

2.Remote ON-OFF Control

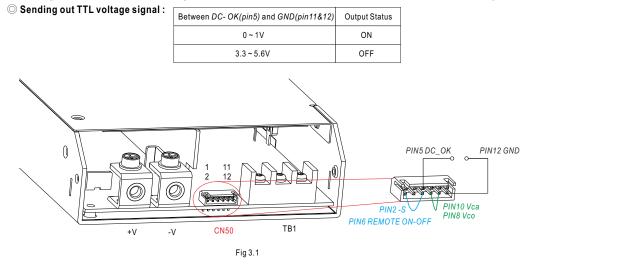
% The power supply can be turned ON-OFF indivicluaaly or along with other units by using the "Remote ON-OFF" function.



- © The power supply is shipped, by factory default, with Remote ON-OFF(pin6) and -S(pin2) shorted by connector.
- When multiple power supplies need to turn ON/OFF simultaneously by Remote ON-OFF control, -S & -V, as well as +S & +V, on each power supply should be connected.

3.DC_OK signal

- "DC_OK" is an open collector signal. It indicates the output status of the power supply. It can operate in two ways : One is sinking current from external TTL signal ; the other is sending out a TTL voltage signal.
- © Sinking current from external TTL signal: The maximum sink current is 10mA and the maximum external voltage is 5.6V.



File Name:RSP-1000-SPEC 2024-12-23



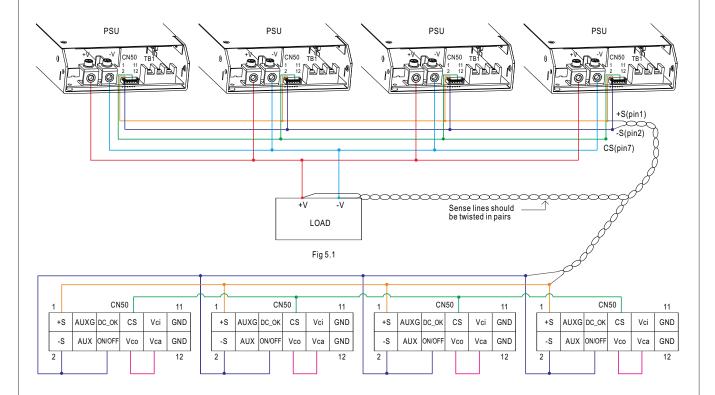
4. Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim) X In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed to 40~110% of the nominal voltage by applying either an EXTERNAL VOLTAGE or an EXTERNAL RESISTANCE. (1) Applying EXTERNAL VOLTAGE between "Vci" (pin9) and "-S" (pin2) as shown in Fig4.1 CN50 1 +S AUXG DC_OK cs Vci GND -S AUX ON/OFF Vca GND Vco 0 12 2 PIN1+S External Voltage +V CCCCC LOAD -V PIN2-S TB1 **CN50** PIN9 Vci +V -v EXTERNAL VOLTAGE (DC) PIN6 REMOTE ON-OFF ◎+S & +V and -S & -V also need to be connected on CN50 Fig 4.1 (2) Applying EXTERANL RESISTANCE as shown in Fig4.2 & Fig 4.3 (A) Output voltage goes down CN50 11 AUXG DC OK GND +S CS Vci REMOTE ON-OFF -S AUX Vco Vca GND 0 PIN3 AUXG PIN9 Vci 12 2 PIN1 $\overline{\mathbb{A}}$ (FOFOFOF) R1 PIN10 Vca PIN2-S +V c PIN4 AUX TB1 LOAD **CN50** +V -V -V o ~N PIN6 REMOTE ON-OFF \bigcirc +S & +V and -S & -V also need to be connected on CN50. Fig 4.2 (B)Output voltage goes up CN50 11 AUXG DC OK GND +S CS Vci REMOTE ON-OFF -S AUX Vco Vca GND 0 PIN3 AUXG 2 PIN1 R2 Ø 10000 +V PIN2-S LOAD PIN4 AUX -V c TB1 **CN50** +V -v $\sqrt{2}$ PIN6 REMOTE ON-OFF \bigcirc +S & +V and -S & -V also need to be connected on CN50. Fig 4.3 Vout OVP 120%(Typ.) Vout OVP 120%(Typ.) Vout 120 100 **OUTPUT VOLTAGE (%) OUTPUT VOLTAGE (%)** 100 90 **OUTPUT VOLTAGE (%)** 110 80 80 Non-Line Non-Linear Non-Linear 70 60 105 60 40 50 100 20 40 Vci(Referenced to -S) R1, 1/8W(Typ.) 820 1K2 2K2 4K7 oper 390 560 → R2, 1/8W(Typ.) 7K5 ope EXTERNAL VOLTAGE (VDC) EXTERNAL RESISTANCE (Ω) EXTERNAL RESISTANCE (Ω) Fig 4.1.1 Fig 4.2.1 Fig 4.3.1

※ Caution: By factory default, the Output Voltage Programming is not activated, and Vco (pin8) and Vca(pin10) are shorted by connector. Whenever this function is not needed to activate, as assumed in other sections' diagrams, please keep Vco(pin8) and Vca(pin10) shorted; other wise, the power supply will have no output.



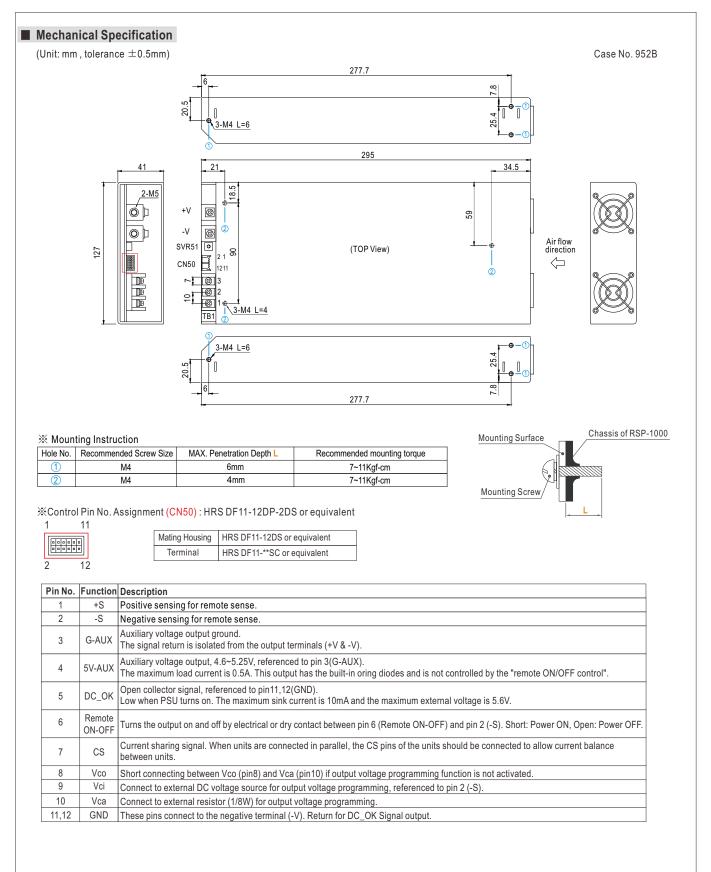
5.Current Sharing with Remote Sense

- RSP-1000 has the built-in active current sharing function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below :
- %The power supplies should be paralleled using short and large diameter wiring and then connected to the load.
- X Difference of output voltages among parallel units should be less than 0.2V.
- % The total output current must not exceed the value determined by the following equation:
- Maximum output current at parallel operation=(Rated current per unit)×(Number of unit)×0.9
- % When the total output current is less than 5% of the total rated current, or say (5% of Rated current per unit) × (Number of unit) the current shared among units may not be fully balanced.



○ +S,-S and CS are connected mutually in parallel.







Pin No.	Assignment	Diag	ram	Maximum mounting torque
1	AC/N			
2	AC/L	888	흘흘흘	18Kgf-cm
3	FG ≟			
DC Ou	tput Terminal	Pin No. Assigni	ment	
	tput Terminal ignment	Pin No. Assigni Diag		Maximum mounting torque

Installation Manual

Please refer to : http://www.meanwell.com/manual.html