

Наличие и актуальные цены на

# RSP-3000-12

https://www.mean-well.ru/store/RSP-3000-12/



<ul> <li>Dimension –</li> </ul>						
L	*	W	*	Н		
278	*	177.8	*	63.5(2U)	mm	
10.9	*	7	*	2.5 (2U)	inch	









### Features

(Parallel)

- · AC input 180~264VAC
- · Built-in active PFC function
- High efficiency up to 91.5%
- Forced air cooling by built-in DC fan
- Output voltage programmable
- Active current sharing up to 9000W (2+1)
- Built-in remote ON-OFF control / remote sense / auxiliary power / power 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
- Digital broadcasting
- RF application

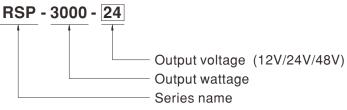
GTIN CODE

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

### Description

RSP-3000 is a 3KW single output enclosed type AC/DC power supply. This series operates for 180~264VAC 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-3000 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

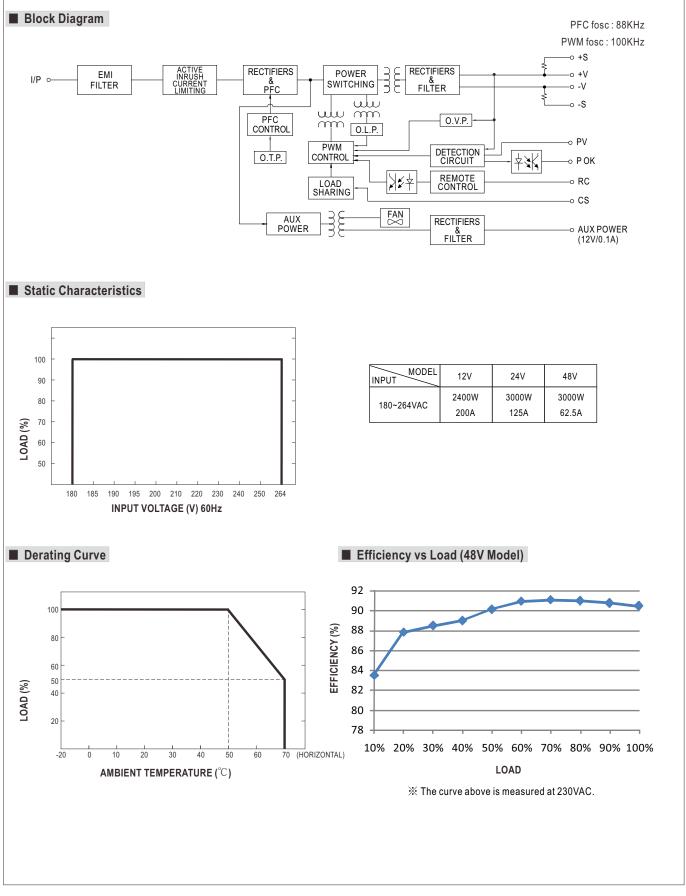




### SPECIFICATION

MODEL		RSP-3000-12	RSP-3000-24	RSP-3000-48		
	DC VOLTAGE	12V	24V	48V		
	RATED CURRENT	200A	125A	62.5A		
	CURRENT RANGE	0~200A	0 ~ 125A	0~62.5A		
	RATED POWER	2400W	3000W	3000W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p		
OUTPUT	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	22 ~ 28V	43 ~ 56V		
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±0.5%	±0.5%	±0.5%		
			10.5%	1-0.5%		
	SETUP, RISE TIME	1000ms, 80ms at full load				
	HOLD UP TIME (Typ.)	10ms at full load				
	VOLTAGE RANGE	180 ~ 264VAC 254 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	0.95/230VAC at full load				
NPUT	EFFICIENCY (Typ.)	87.5% 90% 91.5%				
	AC CURRENT (Typ.)	20A/180VAC 16A/230VAC				
	INRUSH CURRENT (Typ.)	60A/230VAC				
	LEAKAGE CURRENT	<2.0mA/240VAC				
		100 ~ 112% rated output power				
	OVERLOAD		limiting or constant current limiting with delay sh	utdown after 5 seconds re-power on to reco		
PROTECTION		13.8 ~ 16.8V	28.8 ~ 33.6V	57.6 ~ 67.2V		
PROTECTION	OVER VOLTAGE			51.0 - 01.2 V		
		Protection type : Shut down o/p voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down				
	OVER TEMPERATURE	1 0,	, I U	0.0 501/		
	OUTPUT VOLTAGE	2.4 ~ 13.2V	4.8 ~ 28V	9.6 ~ 56V		
	PROGRAMMABLE(PV)	Please refer to the Function Manual.				
	CURRENT SHARING	Up to 9000W or (2+1) units. Please refer to				
FUNCTION	AUXILIARY POWER(AUX)	12V@0.1A(Only for Remote ON/OFF control)				
	REMOTE ON-OFF CONTROL	Please refer to the Function Manual				
	REMOTE SENSE	Compensate voltage drop on the load wiring up to 0.25V. Please refer to the Function Manual.				
	ALARM SIGNAL OUTPUT	Power OK signal. Please refer to the Function Manual				
	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.05%/°C (0~50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
		UL62368-1, CSA C22.2 No. 62368-1, TUV BS EN/EN62368-1, BSMI CNS15598-1, AS/NZS62368.1, IS13252(Part1)/IEC60950-1,				
	SAFETY STANDARDS	EAC TP TC 004 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500				
	ISOLATION RESISTANCE	Parameter	Standard	Test Level / Note		
		Conducted		Class B		
	EMC EMISSION		BS EN/EN55032 (CISPR32), CNS15936			
		Radiated	BS EN/EN55032 (CISPR32), CNS15936	Class A		
		Harmonic Current	BS EN/EN61000-3-2			
SAFETY &		Voltage Flicker	BS EN/EN61000-3-3			
ЕМС		BS EN/EN55035, BS EN/EN61000-6-2,	BSMI CNS13438			
(Note 4)		Parameter	Standard	Test Level / Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 3		
		EFT / Burst	BS EN/EN61000-4-4	Level 3		
	EMC IMMUNITY	Surge	BS EN/EN61000-4-5	Level 3, 2KV/Line-Earth ; Level 2, 1KV/Line-Li		
		Conducted	BS EN/EN61000-4-6	Level 3		
		Magnetic Field	BS EN/EN61000-4-8	Level 4		
		Magnetic Field		>95% dip 0.5 periods, 30% dip 25 period		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% interruptions 250 periods		
	MTBF					
		,	core) ; 75.2K hrs min. MIL-HDBK-217F (25			
OTHERS	DIMENSION	278*177.8*63.5mm (L*W*H)				
	PACKING	4Kg; 4pcs/16Kg/2.04CUFT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature				
NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>The power supply is conside a 720mm*360mm metal pla perform these EMC tests, p (as available on https://www.</li> </ol>	rameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. a & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ance : includes set up tolerance, line regulation and load regulation. ower supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to m these EMC tests, please refer to "EMI testing of component power supplies." <i>va</i> ilable on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) mbient 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). Lict Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				



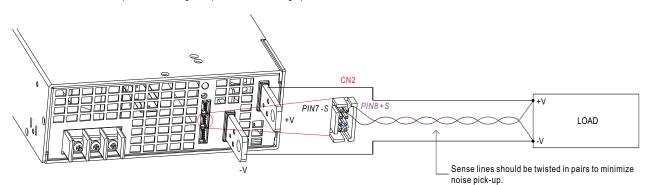




#### Function Manual

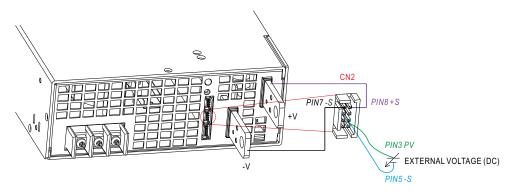
#### 1. Remote Sense

% The Remote Sense compensates voltage drop on the load wiring up to 0.25V

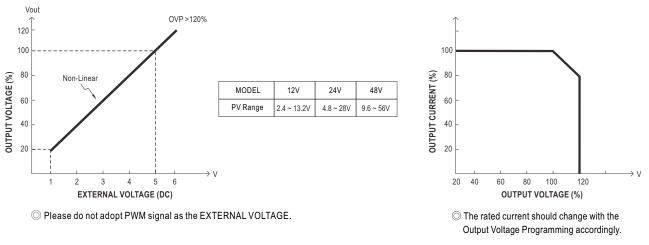


% Caution: The power supply, by factory default(also the assumption for other sections), is shipped with, -S & -V on CN2, as well as +S & +V, shorted by connector. When activating the Remote Sense, the +S signal should be connected to the positive terminal of the load whereas -S signal to the negative terminal of the load.

2. Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim) ※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed to 20~110%(Typ.) of the nominal voltage by applying EXTERNAL VOLTAGE.



O Connecting an external DC source between PV & -S on CN2, and +S & +V, -S & -V also need to be connected.



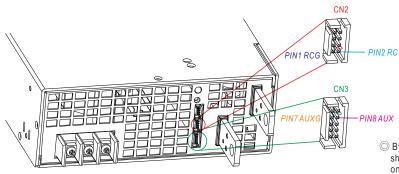
※ Caution: (1)By factory default, the Output Voltage Programming is not activated, and PV(PIN3) and PS(PIN4) of CN2 are shorted by connector. Whenever this function is not needed to activate, as assumed in other sections' diagrams, please keep PV(PIN3) and PS(PIN4) of CN2 shorted; otherwise, the power supply will have no output.

(2)PV(PIN3) and PS(PIN4) of CN1 or CN2 must be disconnected if "Output Voltage Programming" function is used; otherwise, the internal electrical components may be damaged, and the power supply unit may thus be out of order.



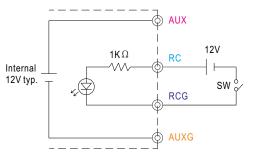
#### 3.Remote ON-OFF

% Remote ON-OFF is activated by the configuration with respect to CN1, CN2 and CN3 as shown in the following diagram.

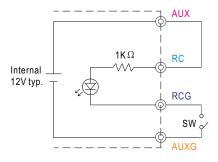


By factory default, PV(PIN3) and PS(PIN4) on CN2 are shorted by connector; likewise, OLP(PIN9) and OL-SD(PIN10) on CN3 are shorted when shipped.

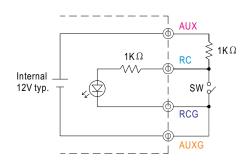
Example 3.2(A): Using external voltage source



Example 3.2(B): Using internal 12V auxiliary output



Example 3.2(C): Using internal 12V auxiliary output



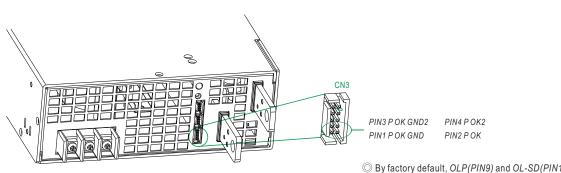
O Connection Method

		Example 3.2(A)	Example 3.2(B)	Example 3.2(C)
SW Logic	Power supply output ON Power supply output OFF	SW Open	SW Open	SW Close
	Power supply output OFF	SW Close	SW Close	SW Open



#### 4. Alarm Signal Output

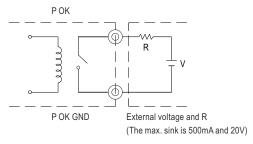
X Alarm signal is sent out through "P OK" & "P OK GND" and P OK2 & P OK GND2 pins on CN3. Please acknowledge an external voltage source is required for this function.



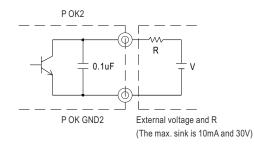
© By factory default, *OLP(PIN9)* and *OL-SD(PIN10)* on CN3 are shorted by connector when shipped.

Function	Description	Output of alarm(POK, Relay Contact)	Output of alarm(P OK2, TTL Signal)
РОК	The signal is "Low" when the power supply is above 80% of the rated output voltage, or, say, Power OK	Low (0.5V max at 500mA)	Low (0.5V max at 10mA)
	The signal turns to be "High" when the power supply is under 80% of the rated output voltage, or, say, Power Fail	High or open (External applied voltage, 500mA max.)	High or open (External applied voltage, 10mA max.)

Table 3.1 Explanation of alarm



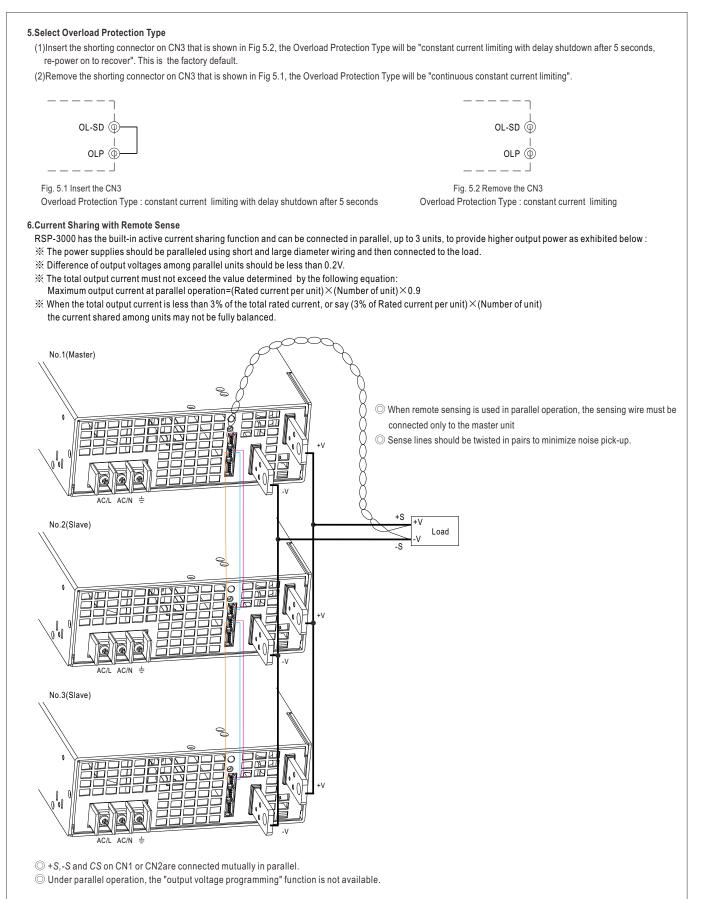






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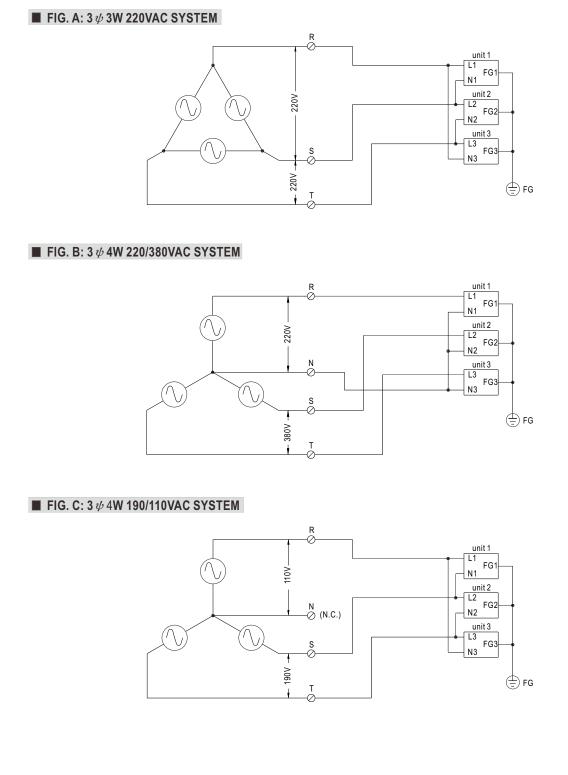






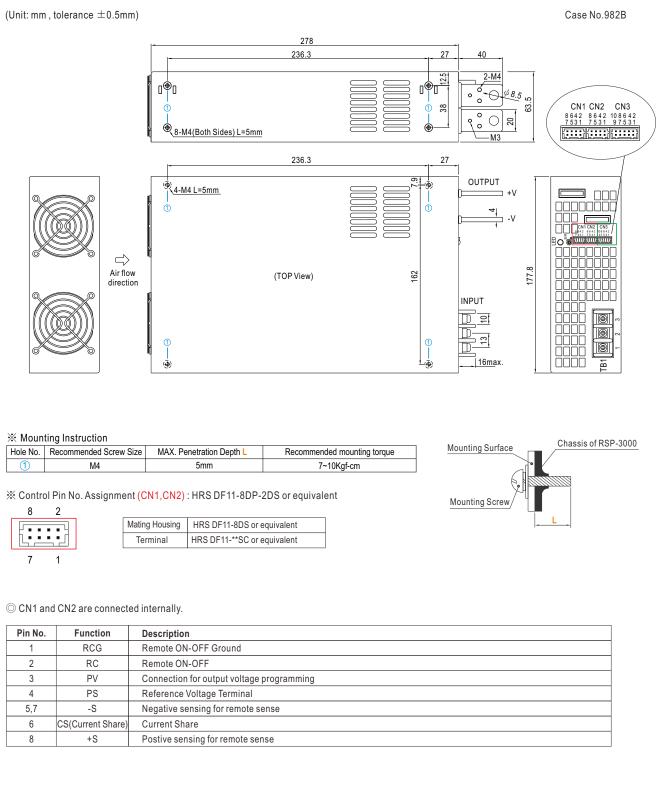
#### 7. Three Phase Connect

Users can exploit three units of RSP-3000(unit 1, unit 2, unit 3) to work with 3  $\psi$  power system. Please refer to following diagrams for configuration.





### Mechanical Specification





%Control Pin No. Assignment (CN3) : HRS DF11-10DP-2DS or equivalent



 Mating Housing
 HRS DF11-10DS or equivalent

 Terminal
 HRS DF11-\*\*SC or equivalent

Pin No.	Function	Description	
1	P OK GND	Power OK Ground	
2	P OK	Power OK Signal (Relay Contact)	
3	P OK GND2	Power OK Ground	
4	P OK2	Power OK Signal (TTL Signal)	
5	RCG	Remote ON-OFF Ground	
6	RC	Remote ON-OFF	
7	AUXG	Auxiliary Ground	
8	AUX	Auxiliary Output	
9	OLP	Overload(OLP) type select	
10	OL-SD		

#### XAC Input Terminal Pin No. Assignment

		0	
Pin No.	Assignment	Diagram	Maximum mounting torque
1	AC/L		
2	AC/N		18Kgf-cm
3	FG ≟		

#### Installation Manual

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