

****** AC Input Terminal Pin No. Assignment

Pin No.	Assignment	Diag	ram	Maximum mounting torque		
1	AC/N					
2	AC/L			18Kgf-cm		
3	FG ±					

AC Input 90-264 VAC

AC Input Connections:

- Connect AC Neutral to terminal labeled "AC/N"
- Connect AC line (Hot) to terminal labeled "AC/L"
- Attach AC safety ground (Earth) to terminal labeled " = "

**** DC Output Terminal Pin No. Assignment**

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Assignment	Diagram	Maximum mounting torque		
+V, -V		10Kgf-cm		

+30 VDC Output

DC Output Connections:

- Connect DC Positive (Red wire) to Positive (+) V terminal post
- Connect DC Positive (Black wire) to Negative (-) V terminal post





Dimension

L * w * H 250 * 127 * 41 (1U) mm 9.84 * 5 * 1.61 (1U) inch

Features

- · Universal AC input / Full range
- · Built-in active PFC function
- · High efficiency up to 92%
- · Forced air cooling by built-in DC fan
- · Output voltage and current programmable
- 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



Certificates

- · Safety: UL/EN/IEC 60950-1
- · EMC: EN 55022 / 55024

Applications

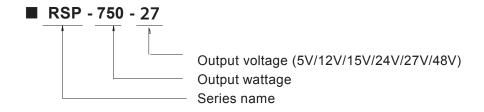
- · Factory control or automation apparatus
- · Test and measurement instrument
- · Laser related machine
- · Burn-in facility
- · RF application



Description

RSP-750 is a 750w single output enclosed type AC/DC power supply. 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 70°C. Moreover, RSP-750 provides vast design flexibility by equipping various built-in functions such as the output programming, remote ON-OFF control, auxiliary power, etc.

Model Encoding / Order Information





Specifications

MODEL		RSP-750-5	RSP-750-12	RSP-750-15	RSP-750-24	RSP-750-27	RSP-750-48		
	DC VOLTAGE	5V	12V	15V	24V	27V	48V		
	RATED CURRENT	100A	62.5A	50A	31.3A	27.8A	15.7A		
	CURRENT RANGE	0 ~ 100A	0 ~ 62.5A	0 ~ 50A	0 ~ 31.3A	0 ~ 27.8A	0 ~ 15.7A		
	RATED POWER	500W	750W	750W	751.2W	750.6W	753.6W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p		
OUTPUT	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10 ~ 13.5V	13.5 ~ 16.5V	20 ~ 26.4V	24 ~ 30V	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%	± 0.5%	± 0.5%		
	LOAD REGULATION	± 2.0%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%		
	SETUP, RISE TIME	1000ms, 50ms at full load							
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load							
		5 90 ~ 264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	0.97/230VAC 0.98/115VAC at full load							
INPUT	EFFICIENCY (Typ.)	82%	87%	89%	90.5%	90.5%	92%		
INFUI			1 1 11				92 /0		
	AC CURRENT (Typ.)	5V: 5.6A/115VAC 2.8A/230VAC 12V~48V: 8.2A/115VAC 3.9A/230VAC							
	INRUSH CURRENT (Typ.)	25A/115VAC 40A/230VAC							
	LEAKAGE CURRENT	<2.0mA / 240VAC							
	OVERLOAD OVER VOLTAGE (OVP)	105 ~ 125% rated output power							
		• • • • • • • • • • • • • • • • • • • •			cally after fault condition i				
PROTECTION		5.75 ~ 6.75V	13.8 ~ 16.8V	17 ~ 20.5V	27.6 ~ 32.4V	31 ~ 36.5V	56.6 ~ 66.2V		
	` ,	**	ut down o/p voltage, r	· · · · · · · · · · · · · · · · · · ·					
	OVER TEMPERATURE		ge, recovers automati		_ •				
	OUTPUT VOLTAGE PROGRAMMABLE(PV)	Adjustment of output voltage is allowable to 40 ~ 110% of nominal output voltage. Please refer to the Function Manual.							
	OUTPUT CURRENT PROGRAMMABLE(PC)	Adjustment of output voltage is allowable to 40 ~ 110% of rated current. Please refer to the Function Manual.							
FUNCTION	AUXILIARY POWER	12V @ 0.1A; tolerance : ± 10%							
	REMOTE ON-OFF CONTROL	Power on : short between Remote ON-OFF(pin13) & 12V-AUX(pin14) on CN50 Power off : open between Remote ON-OFF(pin13) & 12-AUX(pin14) on CN50							
	DC OK SIGNAL	The TTL signal out,	power supply turn on	= 0 ~ 1V ; power sup	ply turn off = 3.3 ~ 5.6V				
	WORKING TEMP.	-30 ~ +70 (Refer	to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85 , 10 ~ 95% RH							
	TEMP. COEFFICIENT	± 0.03%/ (0~50)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL60950-1, TUV EN		0					
	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 / 500VDC / 25 / 70% RH							
		Parameter Standard Test Level / Note					e		
	EMC EMISSION	Conducted		EN55022 (CISPR22) / EN55011 (CISPR11)					
		Radiated		EN55022 (CISPR22) / EN55011 (CISPR11) Class B					
	Lino Linicololi	Harmonic Current		EN61000-3-2	22)7 21100011 (01011111)				
0.45551/.0		Voltage Flicker		EN61000-3-2					
SAFETY &		EN55024 , EN61204-3, EN61000-6-2							
EMC (Note 4)					Toet Loyal / Not	st Level / Note			
1018 4)		ESD		EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated		EN61000-4-3 EN61000-4-4		Level 3			
	EMC IMMUNITY	EFT / Burst				Level 3	- Line 41070 : E ::		
		Surge		EN61000-4-5		Level 4, 2KV/Line-Line 4KV/Line-Ea			
		Conducted		EN61000-4-6		Level 3			
		Magnetic Field		EN61000-4-8		Level 4			
		Voltage Dips and In	terruptions	EN61000-4-11		>95% dip 0.5 pe >95% interruption	riods, 30% dip 25 perio ns 250 periods		
	MTBF	336.9K hrs min. Telcordia SR-332 (Bellcore) ; 109.1K hrs min. MIL-HDBK-217F (25)7F (25)							
OTHERS	DIMENSION	250*127*41mm (L*W*H)							
	PACKING 1.64Kg; 6pcs/10.8Kg/1.1CUFT								
		* 1							
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 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. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit o a 720mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) Derating may be needed under low input voltages. Please check the derating curve for more details. 								

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