



150W Single Output with PFC Function

SPV-150 series



■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fixed switching frequency at 100KHz
- Output voltage programmable from 20~110% by 1~5.5VDC external control signal
- 3 years warranty

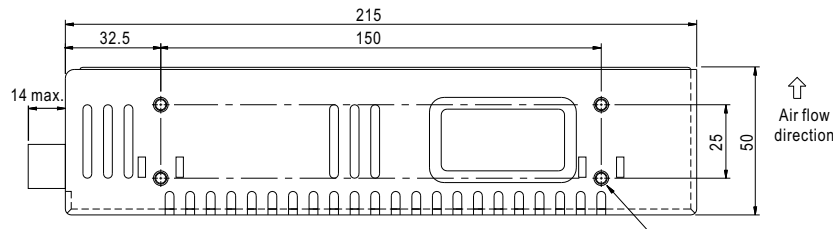


SPECIFICATION

MODEL		SPV-150-12		SPV-150-24		SPV-150-48	
OUTPUT	DC VOLTAGE	12V		24V		48V	
	RATED CURRENT	12.5A		6.25A		3.125A	
	CURRENT RANGE	0 ~ 12.5A		0 ~ 6.25A		0 ~ 3.125A	
	RATED POWER	150W		150W		150W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p		150mVp-p		240mVp-p	
	VOLTAGE ADJ. RANGE	10 ~ 13.2V		20 ~ 26.4V		41 ~ 52.8V	
	VOLTAGE TOLERANCE Note.3	±1.0%		±1.0%		±1.0%	
	LINE REGULATION	±0.3%		±0.2%		±0.2%	
	LOAD REGULATION	±0.5%		±0.5%		±0.5%	
	SETUP, RISE TIME	800ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load					
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load					
INPUT	VOLTAGE RANGE Note.5		88 ~ 264VAC 124 ~ 370VDC				
	FREQUENCY RANGE		47 ~ 63Hz				
	POWER FACTOR (Typ.)		PF>0.94/230VAC PF>0.98/115VAC at full load				
	EFFICIENCY (Typ.)		82%		83%		
	AC CURRENT (Typ.)	115VAC	2.5A				
		230VAC	1.25A				
	INRUSH CURRENT (Typ.)		20A/115VAC 40A/230VAC				
LEAKAGE CURRENT		<1mA / 240VAC					
PROTECTION	OVERLOAD		105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed				
	OVER VOLTAGE		13.8 ~ 16.2V 27.6 ~ 32.4V		57.6 ~ 67.2V		
			Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE		80°C ±5°C (TSW1 : detect on heatsink of power transistor) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down				
FUNCTION	REMOTE CONTROL		4~6VDC power off, <0~0.8VDC power on				
	OUTPUT VOLTAGE TRIM		2.4 ~ 13.2V 4.8 ~ 26.4V		9.6 ~ 52.8V		
ENVIRONMENT	WORKING TEMP.		-20 ~ +65°C (Refer to output load derating curve)				
	WORKING HUMIDITY		20 ~ 90% RH non-condensing				
	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 along X, Y, Z axes				
SAFETY EMC (Note 4)	SAFETY STANDARDS		UL60950-1, TUV EN60950-1 approved				
	WITHSTAND VOLTAGE		I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC				
	EMI CONDUCTION & RADIATION		Compliance to EN55022 (CISPR22) Class B				
	HARMONIC CURRENT		Compliance to EN61000-3-2,-3				
	EMS IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A				
OTHERS	MTBF		207K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION		215*115*50mm (L*W*H)				
	PACKING		1.1Kg; 12pcs/14Kg/0.92CUFT				
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. Mean Well reserves the right to adjust this spec when deemed appropriate. 5. Derating may be needed under low input voltages. Please check the derating curve for more details.					

Mechanical Specification

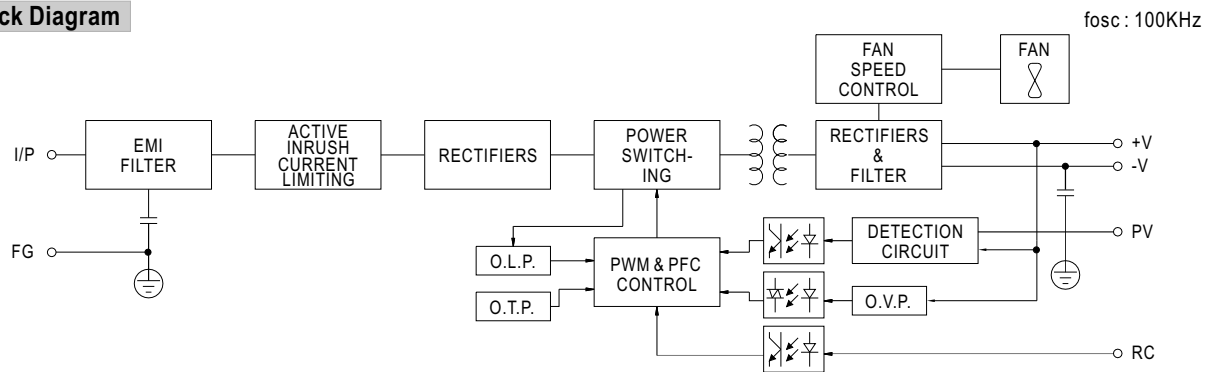
Case No. 912G Unit:mm



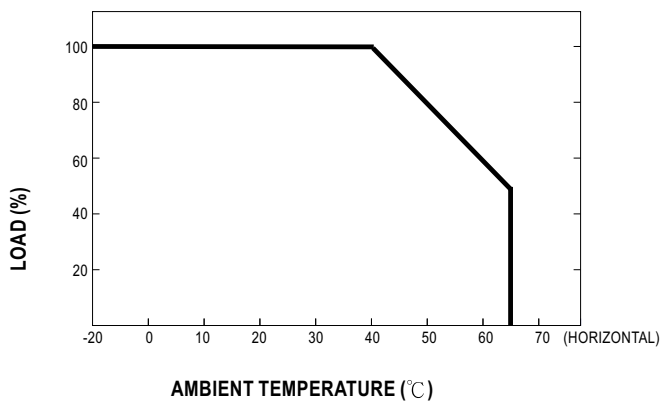
Terminal Pin No. Assignment :

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5	PV
2	AC/N	6~7	DC OUTPUT -V
3	FG $\perp$	8~9	DC OUTPUT+V
4	RC		

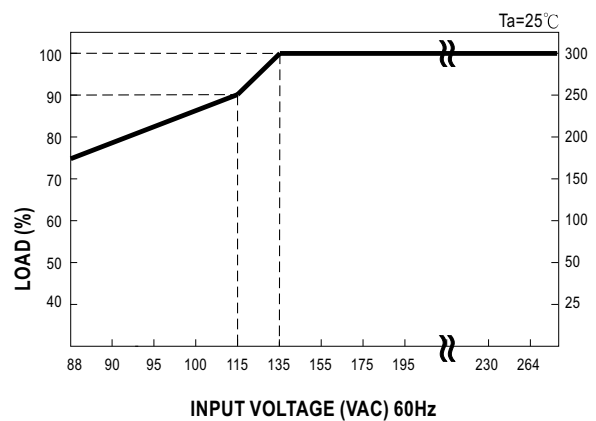
Block Diagram



Derating Curve



Static Characteristics



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A-1230 Wien, Eduard Kittenberger Gasse 97 Top 2

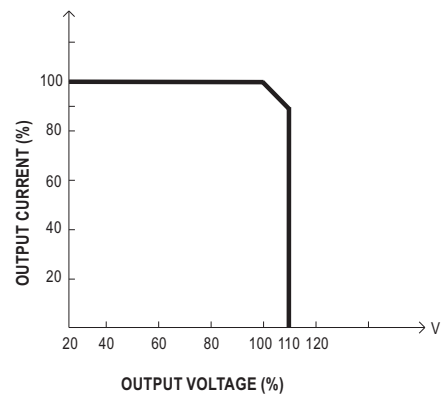
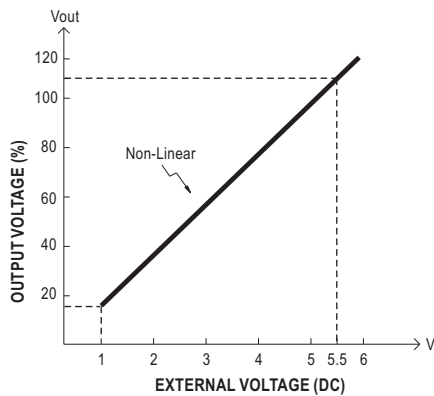
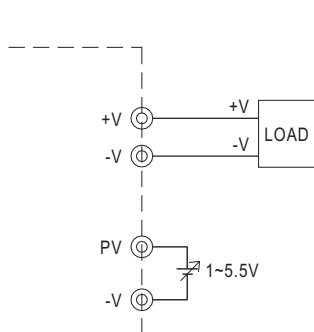
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Komponenten für Steuerungsbau und Industrieelektronik

Function Manual

1.External Voltage Control



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