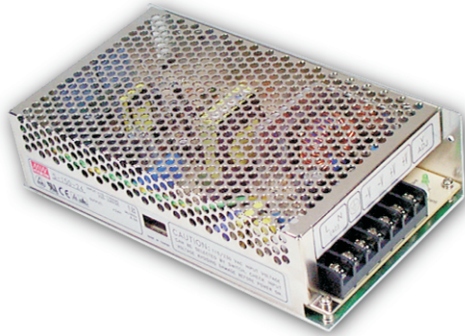




# 31544-PS

150W Single Output Switching Power Supply

# S-150-12



■ Features :

- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 25KHz
- 2 years warranty

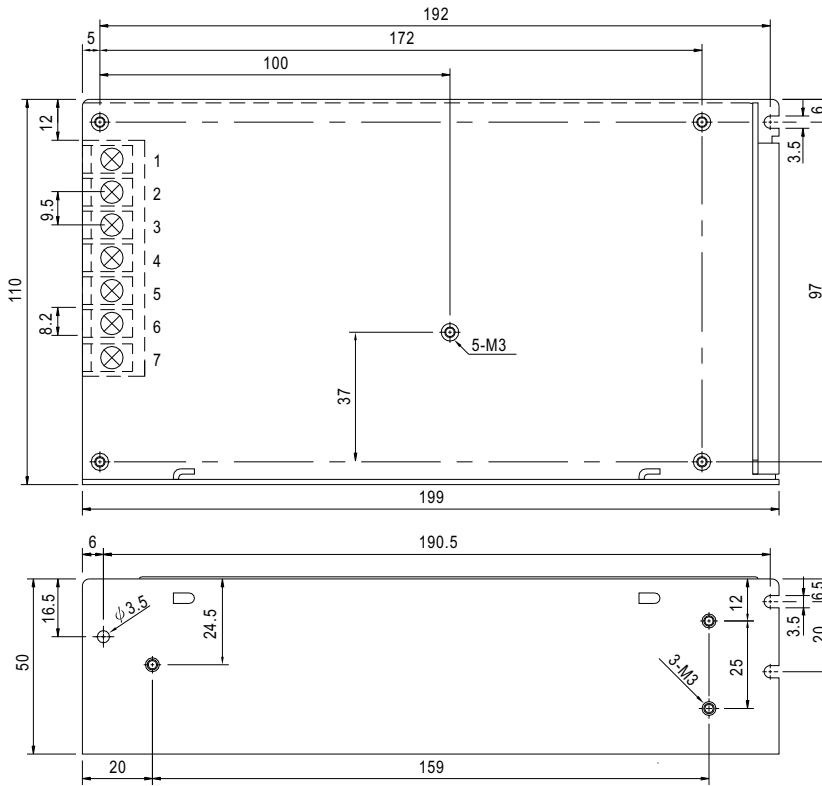


**SPECIFICATION**

MODEL		S-150-12							
OUTPUT	DC VOLTAGE	12V							
	RATED CURRENT	12.5A							
	CURRENT RANGE	0 ~ 12.5A							
	RATED POWER	150W							
	RIPPLE & NOISE (max.) Note.2	180mVp-p							
	VOLTAGE ADJ. RANGE	10.6 ~ 13.2V							
	VOLTAGE TOLERANCE Note.3	±1.0%							
	LINE REGULATION	±0.3%							
	LOAD REGULATION	±0.3%							
	SETUP, RISE TIME	100ms, 50ms at full load							
HOLD UP TIME (Typ.)	28ms at full load								
INPUT	VOLTAGE RANGE	88 ~ 132VAC/176 ~ 264VAC selected by switch      248 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	82%							
	AC CURRENT (Typ.)	3.2A/115VAC      1.6A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 35A							
	LEAKAGE CURRENT	<3.5mA / 240VAC							
PROTECTION	OVERLOAD Note.5	105 ~ 150% rated output power Protection type : Shut down o/p voltage, re-power on to recover							
	OVER VOLTAGE	13.8 ~ 16.2V Protection type : Shut down o/p voltage, re-power on to recover							
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)							
SAFETY & EMC (Note 4)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL1012, UL60950-1, TUV EN60950-1, CCC GB4943 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 / 25°C / 70% RH							
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3							
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A							
	MTBF	286.7K hrs min.    MIL-HDBK-217F (25°C)							
	DIMENSION	199*110*50mm (L*W*H)							
NOTE	PACKING	0.8Kg; 16pcs/13.8Kg/0.95CUFT							
	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p> <p>5. If the power supply is short-circuited under no load, it will recover automatically when short-circuit is removed.</p>								

### Mechanical Specification

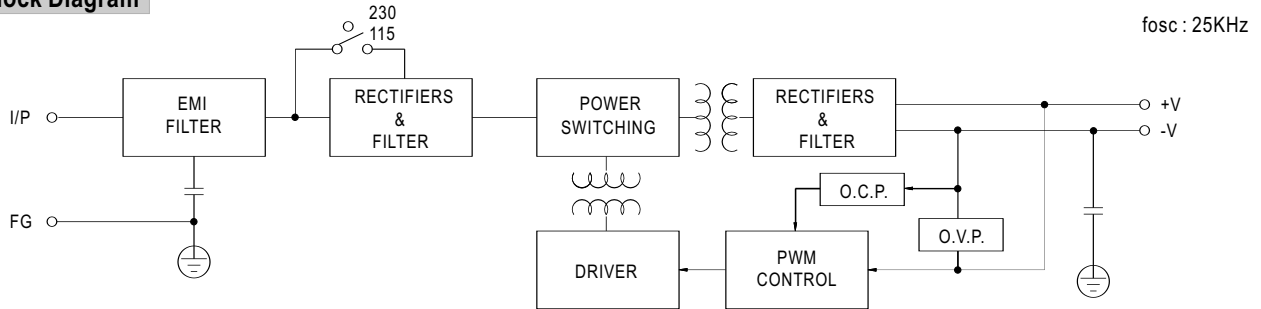
Case No. 906 Unit:mm



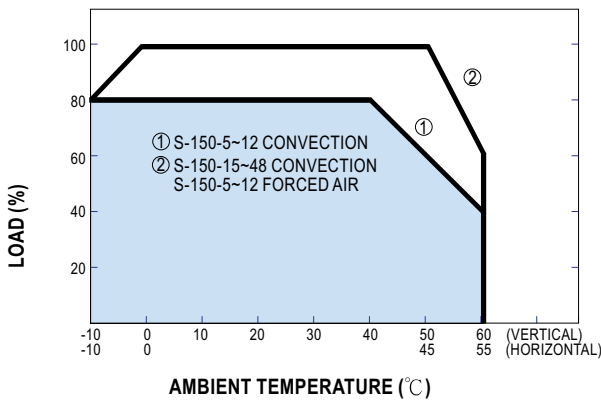
Terminal Pin No. Assignment

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

### Block Diagram



### Derating Curve



### Static Characteristics (24V)

