



PS-150W-12V

Enclosed AC-to-DC Power Supply

UNIT CODE	DESCRIPTION
PS-150W-12V	150 Watt, 12V DC, Single Output Enclosed Switching AC-to-DC Power Supply

SPECIFICATIONS		
Input	Output	Agency approvals
Universal AC input 88-132/176-264VAC@47-63Hz	+12VDC@0-12.5A	UL/CUL/TUV/CE

Features at a Glance:

100% full-load burn-in
Two-year warranty
No minimum load required

-10° to +60°C working temperature
Output voltage: +12VDC@0-12.5A
Watts: 150

105°C output capacitor
Power density: 2.24W/in³
Ripple & noise: 180mV p-p
Load reg.: ±0.3%
Line reg.: ±0.3%
Inrush current (A) @ 120VAC: 35
Isolation voltage: 3000
Leakage current: 3.5mA @ 240V
Rise time: 50ms
Hold up time: 20ms
Vibration: 10-500HZ; 2G
Voltage adjustment: 10%
Efficiency: 82%
MTBF hours: 286,000

Weight: 1.8 lbs. (0.81 kg.)
Dimensions: 7.8 X 4.3 X 2.0 inches
199 x 110 x 50 mm



The highly popular PS-150 series derives its impressive reliability from a conservative design, the exclusive use of high-quality components, and 100% full-load burn-in. Assured to operate correctly anywhere in the world, these switchers feature universal voltage input ranges of 85-264VAC and 120-370VDC. Protection includes short-circuit, overload and over-voltage; and a novel soft-start circuit limits the AC surge current.

Manufacturer guaranteed safety standards comprise UL1950 and TUV EN60950, and these products have earned the European CE mark. The DC output voltage can be adjusted ±10% of nominal rating.

Pricing:	1+	\$ 99.95
	10+	\$ 87.50
	100+	\$ 79.00
electracool.com		



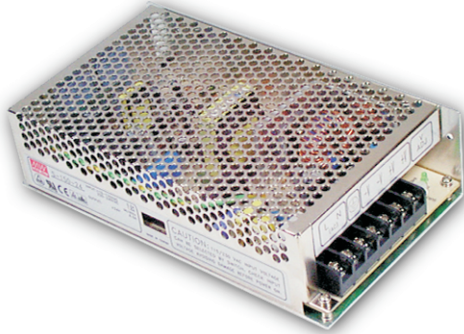
PO Box 7091
Nashua, NH 03060 USA

For Information Call

1 866-665-5434

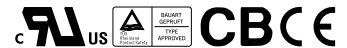
international Inquiries (603) 888-2467
email: sales@electracool.com





■ Features :

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

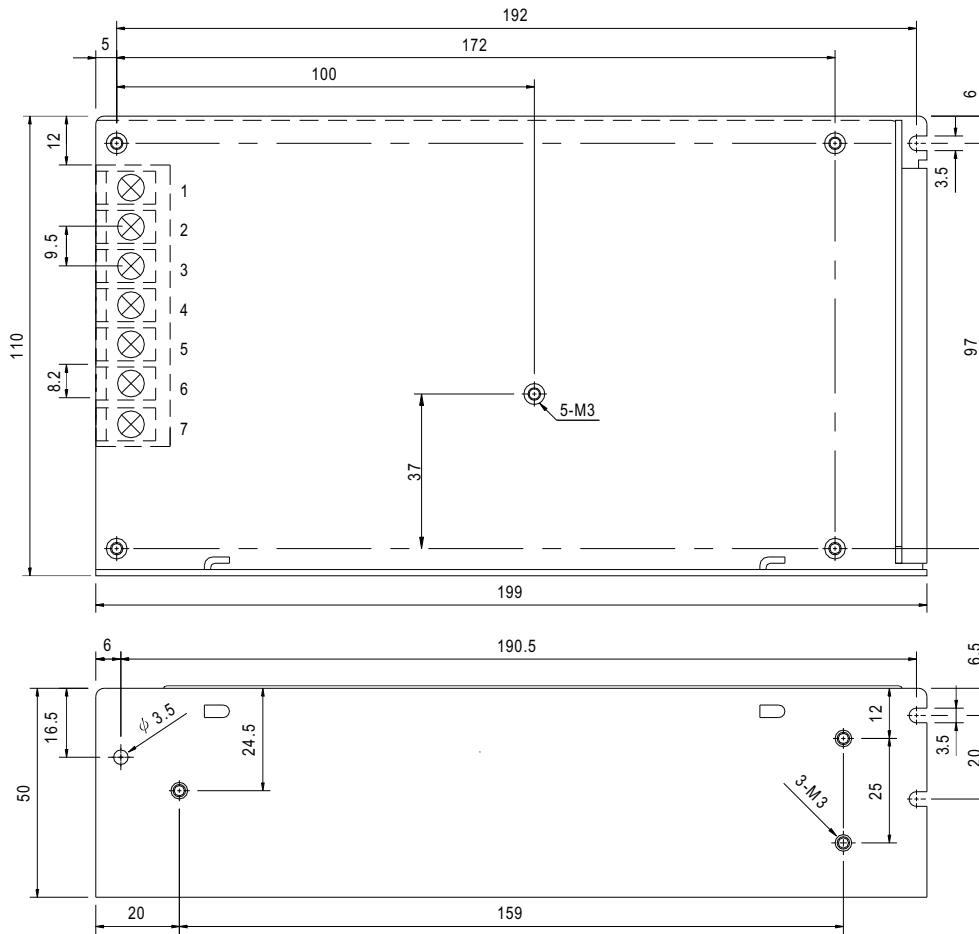


SPECIFICATION

MODEL	S-150-5	S-150-7.5	S-150-9	S-150-12	S-150-13.5	S-150-15	S-150-24	S-150-27	S-150-48	
OUTPUT	DC VOLTAGE	5V	7.5V	9V	12V	13.5V	15V	24V	27V	48V
	RATED CURRENT	30A	20A	16.7A	12.5A	11.2A	10A	6.5A	5.6A	3.2A
	CURRENT RANGE	0 ~ 30A	0 ~ 20A	0 ~ 16.7A	0 ~ 12.5A	0 ~ 11.2A	0 ~ 10A	0 ~ 6.5A	0 ~ 5.6A	0 ~ 3.2A
	RATED POWER	150W	150W	150.3W	150W	151.2W	150W	156W	151.2W	153.6W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	180mVp-p	180mVp-p	180mVp-p	180mVp-p	240mVp-p	240mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	6 ~ 8.3V	8 ~ 10.4V	10.6 ~ 13.2V	12 ~ 15V	13.5 ~ 16.5V	21 ~ 28V	24 ~ 30V	43 ~ 53V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
SETUP, RISE, HOLD TIME	100ms, 50ms, 20ms at full load									
INPUT	VOLTAGE RANGE	88 ~ 132VAC/176 ~ 264VAC selected by switch 248 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	78%	80%	80%	82%	83%	84%	85%	86%	87%
	AC CURRENT	3.2A/115VAC		1.6A/230VAC						
	INRUSH CURRENT (max.)	COLD START 35A								
LEAKAGE CURRENT	<3.5mA / 240VAC									
PROTECTION	OVER LOAD	105 ~ 150% rated output power Protection type : Shut down o/p voltage, re-power on to recover								
	OVER VOLTAGE	5.75 ~ 6.75V	8.63 ~ 10.13V	10.35 ~ 12.2V	13.8 ~ 16.2V	15.53 ~ 18.2V	17.25 ~ 20.3V	30 ~ 34.8V	31.1 ~ 36.45V	55.2 ~ 64.8V
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to output load 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)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL1012, 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								
OTHERS	EMM IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, 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								
		<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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. The final equipment must be re-confirmed that it still meets EMC directives. 								

Mechanical Specification

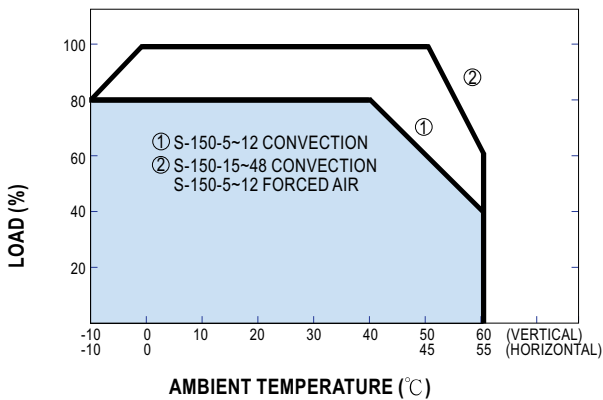
Case No. 906 Unit:mm



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		

Derating Curve



Static Characteristics (24V)

