



Features

- AC input range selectable by switch
- · Withstand 300VAC surge input for 5 second
- No load power consumption<0.5W
- · Miniature size and 1U low profile
- High operating temperature up to 70°C
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- Compliance to IEC/EN 60335-1(PD3) and IEC/EN61558-1, 2-16 for household appliances
- Operating altitude up to 5000 meters
- · Withstand 5G vibration test
- · High efficiency, long life and high reliability
- · LED indicator for power on
- · 100% full load burn-in test
- 3 years warranty

CBCE

Applications

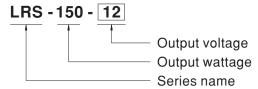
- Industrial automation machinery
- Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- Household appliances

Description

LRS-150 series is a 150W signal-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC(selectable by switch), the entire series provides an output voltage line of 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of LRS-150 that the whole series operates from -30°C through 70°C under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.5W), it allows the end system to easily meet the worldwide energy requirement. LRS-150 has the complete protection functions and 5G anti-vibration capability; it is complied with the international safety regulations such as TUV EN60950-1, EN60335-1,EN61558-1/-2-16, UL60950-1 and GB4943. LRS-150 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding



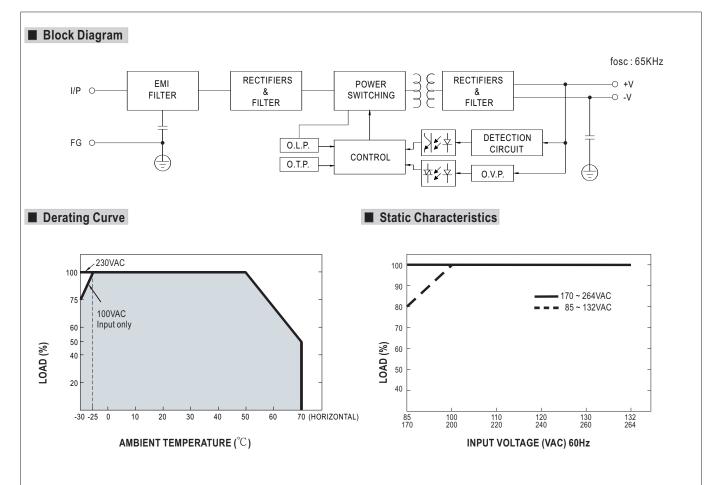


MODEL		LRS-150-12	LRS-150-15	LRS-150-24	LRS-150-36	LRS-150-48	
ОИТРИТ	DC VOLTAGE	12V	15V	24V	36V	48V	
	RATED CURRENT	12.5A	10A	6.5A	4.3A	3.3A	
	CURRENT RANGE	0 ~ 12.5A	0 ~ 10A	0 ~ 6.5A	0 ~ 4.3A	0 ~ 3.3A	
	RATED POWER	150W	150W	156W	154.8W	158.4W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load					
	HOLD UP TIME (Typ.)	40ms/230VAC 35ms/115VAC at full load					
INPUT	VOLTAGE RANGE	85 ~ 132VAC / 170 ~ 264VAC by switch 240 ~ 370VDC(switch on 230VAC)					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	87.5%	88.5%	89%	89%	90%	
	AC CURRENT (Typ.)	2.8A/115VAC 1.6A/230VAC					
	INRUSH CURRENT (Typ.)	COLD STAR 60A/230VAC					
	LEAKAGE CURRENT	<0.75mA / 240VAC					
PROTECTION		110 ~ 140% rated output power					
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	13.8 ~ 16.2V	18.75 ~ 21.75V	28.8 ~ 33.6V	41.4 ~ 48.6V	55.2 ~ 64.8V	
	OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover					
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover					
	WORKING TEMP.	-30 ~ +70 °C (Refer to "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, 5G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC (Note 7)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EN60335-1, EN61558-1/-2-16, CCC GB4943 approved					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC					
	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), GB9254 Class B, EN55014, EN61000-3-2,-3					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A					
OTHERS	MTBF	601K hrs min. MIL-HDBK-217F (25° C)					
	DIMENSION	159*97*30mm (L*W*H)					
	PACKING	0.48Kg; 30pcs/15.4Kg/0.75CUFT					
NOTE	 Ripple & noise are mea Tolerance : includes set Line regulation is meas Load regulation is meas 	ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Issured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. It up tolerance, line regulation and load regulation. Ured from low line to high line at rated load. Sured from 0% to 100% rated load. The measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up					

- 7. 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 http://www.meanwell.com)

 8. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m (6500ft).

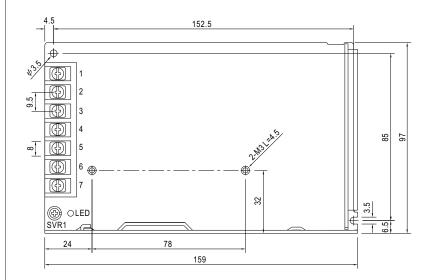


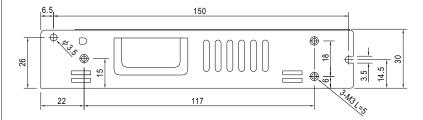




■ Mechanical Specification

Case No.241A 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 ±		

■ Installation Manual

Please refer to: http://www.meanwell.com/webnet/search/InstallationSearch.html