





























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/BS EN/EN 60335-1(PD3) and IEC/BS EN/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
- · Over voltage category III
- 100% full load burn-in test
- 3 years warranty

■ Applications

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

■ GTIN CODE

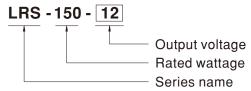
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

LRS-150 series is a 150W single-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 BS EN/EN62368-1, BS EN/EN60335-1,BS EN/EN61558-1/-2-16, UL62368-1 and GB 4943.1. LRS-150 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding



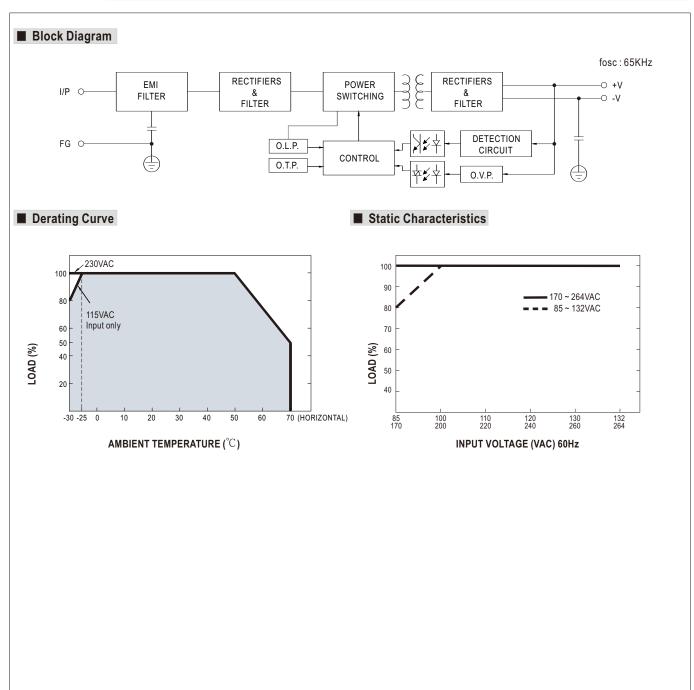


SPECIFICATION

MODEL		LRS-150-12	LRS-150-15	LRS-150-24	LRS-150-36	LRS-150-48		
	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		
OUTPUT	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%		
	LINE REGULATION Note.4		±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION Note.5		±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	500ms, 30ms/230VAC			= 0.070	= 0.070		
	HOLD UP TIME (Typ.)	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load 40ms/230VAC 35ms/115VAC at full load						
	VOLTAGE RANGE	85 ~ 132VAC / 170 ~ 264VAC by switch 240 ~ 370VDC(switch on 230VAC)						
	FREQUENCY RANGE	47 ~ 63Hz	I	T	laan.	laas:		
INPUT	EFFICIENCY (Typ.)	87.5%	88.5%	89%	89%	90%		
01	AC CURRENT (Typ.)	3A/115VAC 1.7A/230VAC						
	INRUSH CURRENT (Typ.)	COLD STAR 60A/230VAC						
	LEAKAGE CURRENT	<0.75mA/240VAC						
	OVERLOAR	110 ~ 140% rated output power						
	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION		13.8 ~ 16.2V	18.75 ~ 21.75V	28.8 ~ 33.6V	41.4 ~ 48.6V	55.2 ~ 64.8V		
	OVER VOLTAGE	Protection type : Shut	down o/p voltage, re-po	ower 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						
ENVIRONMENT	STORAGE TEMP., HUMIDITY							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes						
	OVER VOLTAGE CATEGORY	III; Compliance to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664-1, BS EN/EN62477-1; altitude up to 2000 meters						
SAFETY & EMC (Note 7)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16, GB 4943.1, BSMI CNS15598-1, EAC TP TC 004, KC K60950-1(for LRS-150-12 only), BIS IS13252(Part1): 2010/IEC 60950-1: 2005(NOTE 9), AS/NZS 62368.1(by CB) approved						
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC 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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN55014, BS EN/EN61000-3-2 Class A(≤75% Load), BS EN/EN61000-3-3,GB17625.1,GB/T 9254.1, BSMI CNS15936, EAC TP TC 020,KC KN32,KN35(for LRS-150-12 only)						
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN55035, heavy industry level, EAC TP TC 020,KC KN32,KN35(for LRS-150-12 only)						
OTHERS	MTBF	2707.7K hrs min. Telcordia SR-332 (Bellcore); 558.2Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	159*97*30mm (L*W*F	1)					
	PACKING	0.42Kg; 30pcs/13.8Kg	g/0.80CUFT					
NOTE	Ripple & noise are measu Tolerance: includes set u Line regulation is measur Load regulation is measur Length of set up time is n The power supply is cons mounting the unit on a 36 EMC directives. For guida (as available on https://ww	icially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. up tolerance, line regulation and load regulation. The from low line to high line at rated load. Sured from 0% to 100% rated load. Sured from 0% to 100% rated load. Sured from 0% to 100% rated load. Sidered at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time. Sidered a component which will be installed into a final equipment. All the EMC tests are been executed by 60mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets lance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." See derating of 5°C/1000m is peeded for operating altitude greater than 2000m (6500ft)						

- 8. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m (6500ft).
- 9. Some model may not have the BIS logo, please contact your MEAN WELL sales for more information.
- × Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

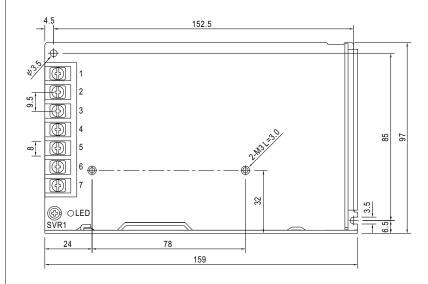


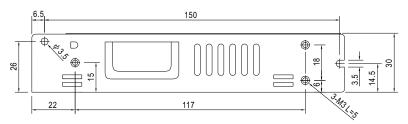


Tolerance:±1



■ Mechanical Specification





Unit:mm

Case No.241A

Terminal Pin No. Assignment

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	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/manual.html