





























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

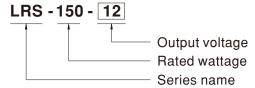
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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



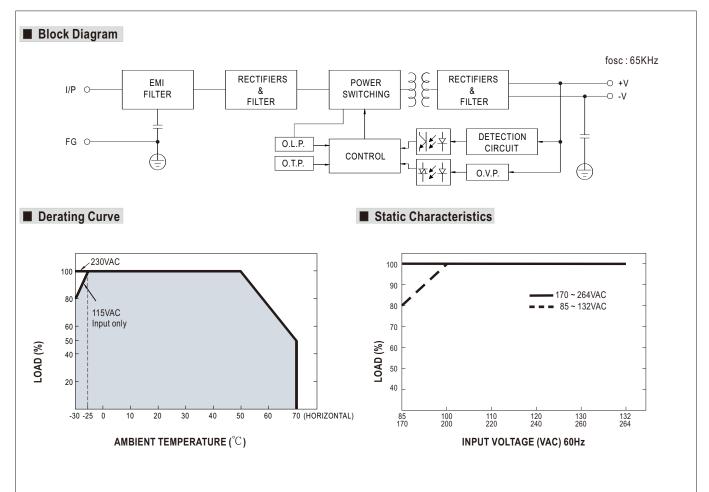


SPECIFICATION

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%	±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 500ms, 30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	40ms/230VAC 35ms/115VAC at full load						
	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%		
INPUT	AC CURRENT (Typ.)			0376	0370	30 70		
	INRUSH CURRENT (Typ.)	3A/115VAC 1.7A/230VAC						
	LEAKAGE CURRENT	COLD STAR 60A/230VAC <0.75mA / 240VAC						
	LEARAGE CURRENT							
	OVER LOAD	110 ~ 140% rated output power						
		Protection type: Hiccup mode, recovers automatically after fault condition is removed 13.8 ~ 16.2V						
PROTECTION					41.4 ~ 48.6V	55.2 ~ 64.8V		
		Protection type: Shut down o/p voltage, re-power on to recover						
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover						
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	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)						
	MTBF	2707.7K hrs min. Telcordia SR-332 (Bellcore); 558.2Khrs min. MIL-HDBK-217F (25℃)						
	DIMENSION	159*97*30mm (L*W*H)						
	PACKING	0.42Kg; 30pcs/13.8Kg/0.80CUFT						
NOTE	Ripple & noise are measured. Tolerance: includes set used. Line regulation is measured. Length of set up time is not	ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. asured 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. Under the to high line at rated load. It is measured to 100% rated load. It is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time. It is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time. It is measured at component which will be installed into a final equipment. All the EMC tests are been executed by 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets idance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) rederating of 5°C/1000m is needed for operating altitude greater than 2000m (6500ft). have the BIS logo, please contact your MEAN WELL sales for more information.						

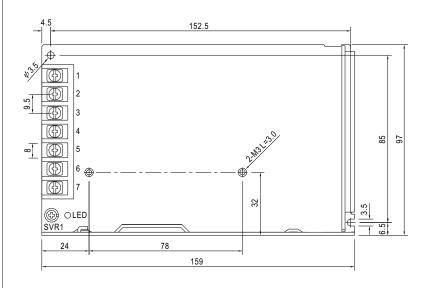
Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

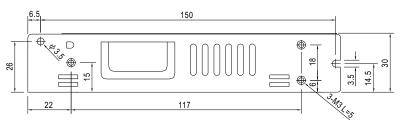






■ Mechanical Specification





Case No.241A Unit:mm Tolerance:±1

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/manual.html