

LRS-150F series





























■ Features

- · Universal AC input / Full range
- · Withstand 300VAC surge input for 5 second
- No load power consumption<0.5W
- · Miniature size and 1U low profile
- * High operating temperature up to $70\,^\circ\text{C}$
- 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

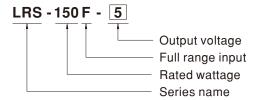
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

LRS-150F series is a 150W single-output enclosed type power supply with 30mm of low profile design. Adopting the full range 85~264VAC input, the entire series provides an output voltage line of 5V, 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-150F 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-150F 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 GB4943. LRS-150F series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding







LRS-150F series

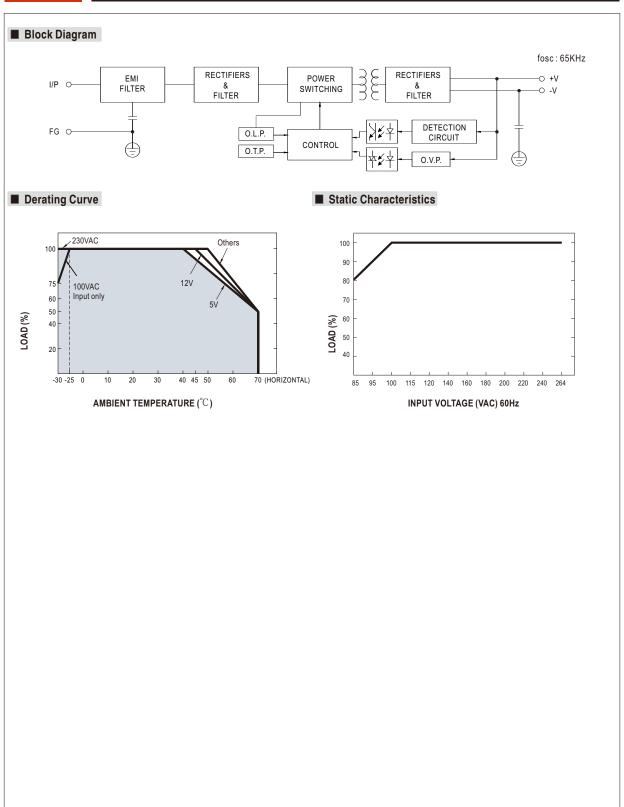
SPECIFICATION

MODEL		LRS-150F-5	LRS-150F-12	LRS-150F-15	LRS-150F-24	LRS-150F-36	LRS-150F-48		
	DC VOLTAGE	5V	12V	15V	24V	36V	48V		
	RATED CURRENT	22A	12.5A	10A	6.5A	4.3A	3.3A		
	CURRENT RANGE	0 ~ 22A	0 ~ 12.5A	0 ~ 10A	0 ~ 6.5A	0 ~ 4.3A	0 ~ 3.3A		
	RATED POWER	110W	150W	150W	156W	154.8W	158.4W		
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p		
UTPUT	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	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	±1.0%	±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.)	16ms/230VAC 12ms/115VAC at full load							
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	85%	87.5%	89%	89%	89%	90%		
IPUT	(31)			0970	09%	0970	90 /0		
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)	3A/115VAC 1.7A/230VAC							
	, , , ,	COLD STAR 60A/230VAC							
	LEAKAGE CURRENT	<0.75mA / 240VAC							
	OVER LOAD	110 ~ 140% rated output power							
		7.					1		
ROTECTION		5.75 ~ 6.75V	13.8 ~ 16.2V	18.75 ~ 21.75V	28.8 ~ 33.6V	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							
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
VIRONMENT	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/EN6066 2000 meters						BS EN/EN62477-1	; altitude up to		
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16,CCC GB4943.1, BSMI CNS14336-1,EAC TP TC004, AS/NZS 62368.1(by CB) approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC							
EMC (Note 7)	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(≤80% Load), GB/T 9254, BSMI CNS13438, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020							
	MTBF	2761.8K hrs min. Telcordia SR-332 (Bellcore); 592.4Khrs min. MIL-HDBK-217F (25°C)							
THERS	DIMENSION	159*97*30mm (L*W*H)							
	PACKING	0.48Kg; 30pcs/15	5.4Kg/0.75CUFT						
IOTE	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 http://ww The ambient temperature	NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. The are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. The dudes set up tolerance, line regulation and load regulation. The is measured from low line to high line at rated load. The is measured from 0% to 100% rated load. The properties of the set up time. The power supply very quickly may lead to increase of the set up time. The properties of the set up time. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets. The final equipment must be re-confirmed that it still meets.							





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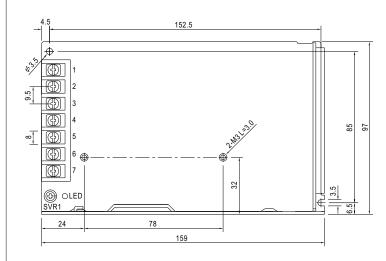


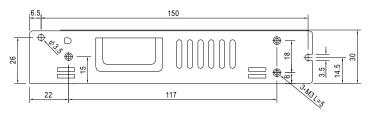


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Case No.241A Unit:mm

■ Mechanical Specification





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





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