

6F., No. 114, Sec. 3, Minquan E. Rd., Songshan Dist., Taipei City 10543,

Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

### 150W Enclosed type single output power supply > LRS-150

























### ■ Features

- · AC input range selectable by switch
- Withstand 300VAC surge input for 5 second
- No load power consumption<0.5W</li>
- · 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

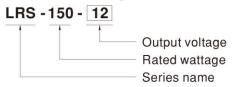
- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- · Household appliances

### 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 GB4943. LRS-150 series serves as a high price-to-performance power supply solution for various industrial applications.

#### Model Encoding





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#### **SPECIFICATION**

MODEL		LRS-150-12	LRS-150-15	LRS-150-24	LRS-150-36	LRS-150-48
	DC VOLTAGE	12V	15V	24V	36V	48V
ОИТРИТ	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%
	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			20.070	
	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) 47 ~ 63Hz				
	FREQUENCY RANGE		00.50/	000/	000/	000/
	EFFICIENCY (Typ.)	87.5%	88.5%	89%	89%	90%
	AC CURRENT (Typ.)	3A/115VAC 1.7A/230VAC				
	INRUSH CURRENT (Typ.)	COLD STAR 60A/230VAC				
	LEAKAGE CURRENT	<0.75mA / 240VAC				
PROTECTION	OVER LOAD	110 ~ 140% rated output power				
	OVER LOAD	Protection type : Hicc	up mode, recovers auto	matically after fault cor	ndition 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				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	$-40 \sim +85^{\circ}\text{C}$ , $10 \sim 95\%$ RH non-condensing				
	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, CCC GB4943.1, BSMI CNS14336-1, EAC TP TC 004, KC K60950-1(for LRS-150-12 only), BIS IS13252(Part1): 2010/IEC 60950-1: 2005, 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, GB/T 9254, BSMI CNS13438, 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℃)				
	DIMENSION	159*97*30mm (L*W*F	1)			
	PACKING	0.48Kg; 30pcs/15.4K	g/0.75CUFT			
NOTE	Ripple & noise are measuments.     Tolerance: includes set under the condition is measured. Load regulation is measured. Length of set up time is mounting the unit on a 36 EMC directives. For guidance includes the condition of the conditio	including mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Use of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Use to be from low line to high line at rated load. Including the from 0% to 100% rated load. Including the from 100% rated load. Inclu				

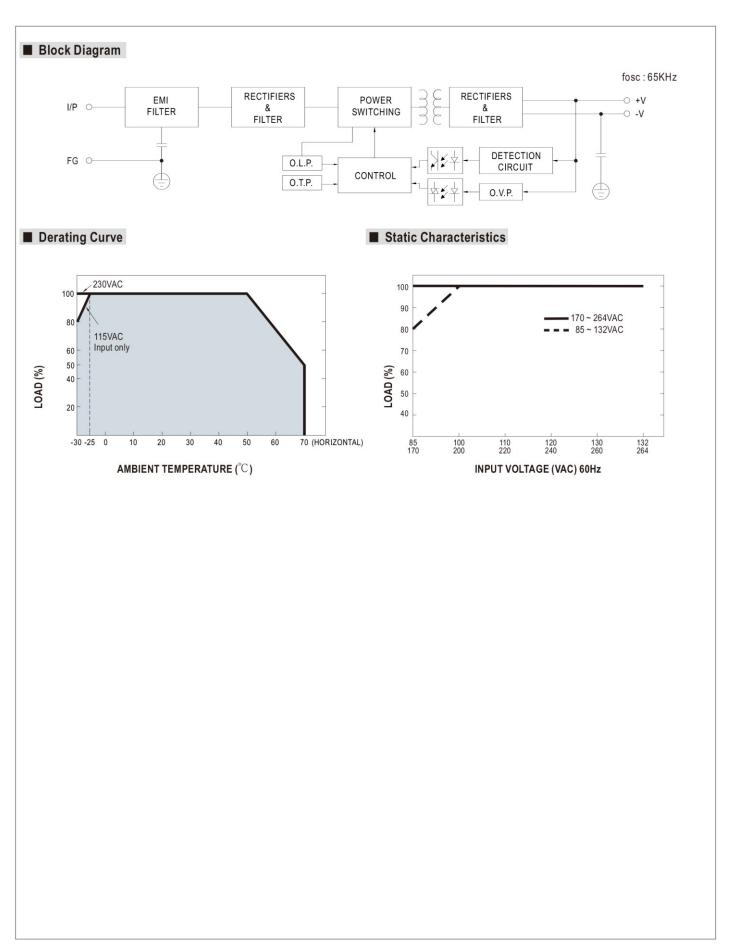


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