LRS-350 series

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Features

- · AC input range selectable by switch
- · Withstand 300VAC surge input for 5 second
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Forced air cooling by built-in DC fan
- · Built-in cooling Fan ON-OFF control
- · 1U low profile
- · Withstand 5G vibration test
- LED indicator for power on
- No load power consumption<0.75W
- · 100% full load burn-in test
- High operating temperature up to 70°C
- Operating altitude up to 5000 meters (Note.8)
- · High efficiency, long life and high reliability
- · 3 years warranty

■ Applications

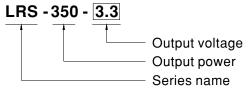
- Industrial automation machinery
- Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

Description

LRS-350 series is a 350W single-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC (select by switch), the entire series provides an output voltage line of 3.3V, 4.2V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 89%, with the built-in long life fan LRS-350 can work under -25~ $+70^{\circ}\text{C}$ with full load. Delivering an extremely low no load power consumption (less than 0.75W), it allows the end system to easily meet the worldwide energy requirement. LRS-350 has the complete protection functions and 5G anti-vibration capability; it is complied with the international safety regulations such as UL60950-1. LRS-350 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding

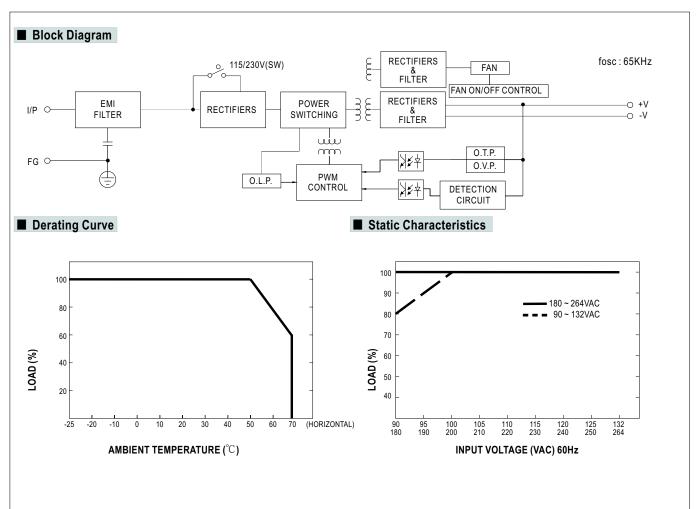




SPECIFICATION

MODEL		LRS-350-3.3	LRS-350-4.2	LRS-350-5	LRS-350-12	LRS-350-15	LRS-350-24	LRS-350-36	LRS-350-48	
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V	
	RATED CURRENT	60A	60A	60A	29A	23.2A	14.6A	9.7A	7.3A	
ОИТРИТ	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 60A	0 ~ 29A	0 ~ 23.2A	0 ~ 14.6A	0 ~ 9.7A	0 ~ 7.3A	
	RATED POWER	198W	252W	300W	348W	348W	350.4W	349.2W	350.4W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	3.6 ~ 4.4V	4.5 ~ 5.5V	10.2 ~ 13.8V		21.6 ~ 28.8V	32.4 ~ 39.6V		
	VOLTAGE TOLERANCE Note.3	±4.0%	±4.0%	±3.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION Note.5	±2.5%	±2.5%	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1300ms, 50m	s/230VAC	1300ms,50ms	/115VAC at fu	ll load				
	HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC at full load								
INPUT	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (switch on 230VAC)								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	79.5%	81.5%	83.5%	85%	86%	88%	88.5%	89%	
	AC CURRENT (Typ.)	6.8A/115VAC 3.4A/230VAC								
	INRUSH CURRENT (Typ.)	60A/115VAC 60A/230VAC								
	LEAKAGE CURRENT	<2mA / 240VA	<2mA / 240VAC							
	OVER LOAD	110 ~ 140% rated output power								
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION	OVER VOLTAGE	3.8 ~ 4.45V	4.6 ~ 5.4V	5.75 ~ 6.75V	13.8 ~ 16.2V	18 ~ 21V	28.8 ~ 33.6V	41.4 ~ 46.8V	55.2 ~ 64.8	
		Protection typ	e : Hiccup mod	le, recovers au	tomatically aft	er fault condition	n is removed		<u> </u>	
	OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed								
FILMS, LICAN I	FAN ON/OFF CONTROL (Typ.)	RTH3≧50°C FAN ON, ≦40°C FAN OFF								
ENVIRONMENT	WORKING TEMP.	-25 ~ +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 STANDARDS	UL60950-1, BSMI CNS14336-1, EAC TP TC 004 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
SAFETY	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25°C/ 70% RH								
	EMC EMISSION	Compliance to BSMI CNS13438, EAC TP TC 020								
	EMC IMMUNITY	Compliance to EAC TP TC 020								
	MTBF	327.9K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	215*115*30mm (L*W*H)								
	PACKING	0.76Kg; 15pc	s/12.4Kg/0.780	CUFT						
NOTE	 2. Ripple & noise are mea 3. Tolerance : includes set 4. Line regulation is meas 5. Load regulation is meas 6. Length of set up time is time. 7.The 150% peak load cap for over 1 second and versions 	pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. The saured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. The street up tolerance, line regulation and load regulation. Sourced from low line to high line at rated load. The sured from 0% to 100% rated load. The saured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up apability is built in for up to 1 second for 12~48V.LRS-350 will enter hiccup mode if the peak load is delivered will recover once it resumes to the rated current level(115VAC/230VAC). The province of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).								



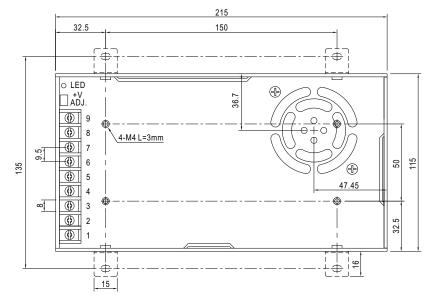


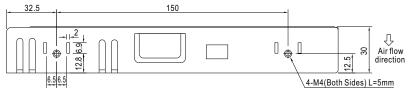


■ Mechanical Specification

Case No.207A

Unit:mm





Terminal Pin No. Assignment:

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Pin No.	Assignment	Pin No.	Assignment						
1	AC/L	4~6	DC OUTPUT -V						
2	AC/N	7~9	DC OUTPUT +V						
3	FG ≟								

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html