



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

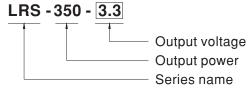
- Industrial automation machinery
- Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

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~ $+70^{\circ}$ 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

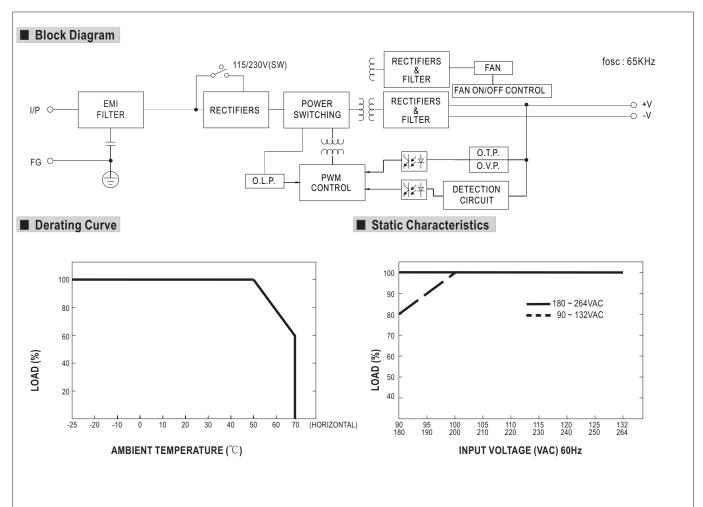




SPECIFICATION

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			
ОИТРИТ	RATED CURRENT	60A	60A	60A	29A	23.2A	14.6A	9.7A	7.3A			
	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 60A	0 ~ 29A	0 ~ 23.2A	0 ~ 14.6A	0 ~ 9.7A	0 ~ 7.3A			
		198W			348W			349.2W	350.4W			
	RATED POWER		252W	300W		348W	350.4W					
	RIPPLE & NOISE (max.) Note.2		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					
	VOLTAGE TOLERANCE Note.3		±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%			
	LOAD REGULATION Note.5		±2.5%	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	1300ms, 50ms/230VAC 1300ms,50ms/115VAC at full load										
	HOLD UP TIME (Typ.)	16ms/230VAC		2ms/115VAC at full load								
INPUT	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (switch on 230VAC)										
	FREQUENCY RANGE	47 ~ 63Hz			T		T	I	T			
	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 typ	e : Hiccup mod	de, recovers au	itomatically aft	er fault condition	on 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 ~ 64.8V			
		Protection typ	e : Hiccup mod	de, recovers au	tomatically after	er fault condition	on is removed					
	OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed										
FUNCTION	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										
0,11211	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; 15pcs/12.4Kg/0.78CUFT										
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 ca for over 1 second and v 	NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. udes set up tolerance, line regulation and load regulation. is measured from low line to high line at rated load. It is measured from 0% to 100% rated load. It is measured from 0% 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 load capability is built in for up to 1 second for 12~48V.LRS-350 will enter hiccup mode if the peak load is delivered and and will recover once it resumes to the rated current level(115VAC/230VAC).										



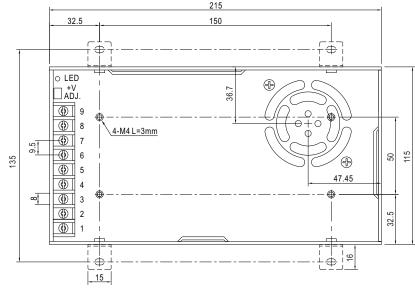


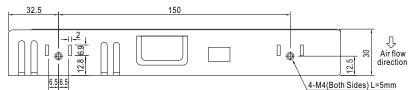


■ Mechanical Specification

Case No.207A

Unit:mm





Terminal Pin No. Assignment :

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