





■ 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

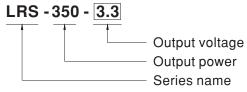
- · Industrial automation machinery
- Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

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~ $\pm 70^{\circ}$ 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

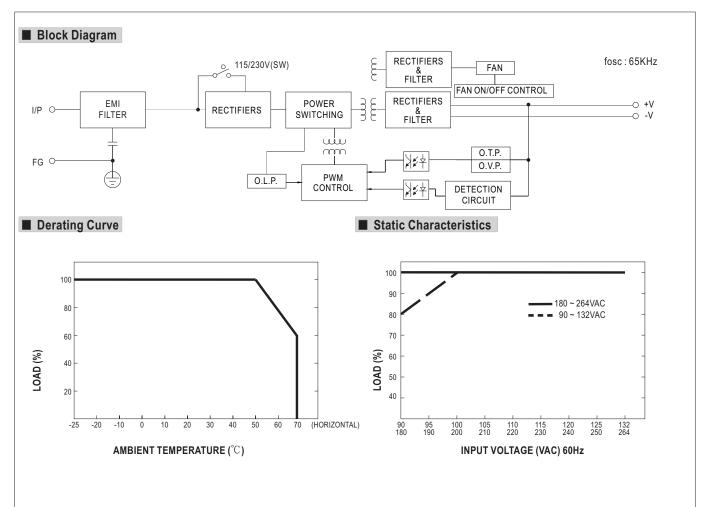




SPECIFICATION

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		
	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		
	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		
OUTPUT	VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	3.6 ~ 4.4V	4.5 ~ 5.5V	10.2 ~ 13.8V	13.5 ~ 18V	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, 50ms	s/230VAC	1300ms,50ms	/115VAC at fu	ll load					
	HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC at full load									
	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%		
INPUT	AC CURRENT (Typ.)	6.8A/115VAC				15570	0070		15570		
	INRUSH CURRENT (Typ.)	60A/115VAC 60A/230VAC									
	LEAKAGE CURRENT	<2mA / 240VAC									
		110 ~ 140% rated output power									
	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION		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		
	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition 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	SAFETY STANDARDS	UL60950-1 approved									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25°C / 70% RH									
	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	Ripple & noise are mea Tolerance : includes set Line regulation is mease Load regulation is mease Length of set up time is time. 7.The 150% peak load cal for over 1 second and verified.	OT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. The measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. The desired pair wire terminated with a 0.1uf & 47uf parallel capacitor. The measured from low line to high line at rated load. The seasured from 0% to 100% rated load. The power supply very quickly may lead to increase of the set up and capability is built in for up to 1 second for 12~48V.LRS-350 will enter hiccup mode if the peak load is delivered digital and will recover once it resumes to the rated current level(115VAC/230VAC). The perature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).									



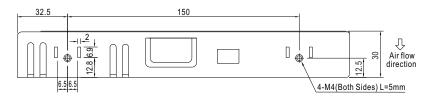


Unit:mm

Case No.207A



■ Mechanical Specification 32.5 150 # ○ LED +V ADJ. 36.7 9 **(4)** 8 4-M4 L=3mm 7 **⊕** 6 20 133 **(**) 5 47.45 **(** 3 2 32.5



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

1

+ 15

Please refer to : http://www.meanwell.com/webnet/search/InstallationSearch.html