



























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℃
- Operating altitude up to 5000 meters (Note.8)
- . High efficiency, long life and high reliability
- · 3 years warranty

Applications

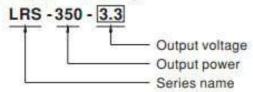
- Industrial automation machinery
- · Industrial control system
- Mechanical and electrical equipment
- · Electronic instruments, equipments or apparatus

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°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 IEC/UL 62368-1. 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
оитрит	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
	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	43.2 - 52.8
	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%	土0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1300ms, 50m	s/230VAC	1300ms,50m	s/115VAC at fu	lload			
	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/230						
	INRUSH CURRENT (Typ.)	60A/115VAC 60A/230VAC							
	LEAKAGE CURRENT	<2mA / 240VAC							
PROTECTION			140% rated output power						
	OVER LOAD	3.3-36V Hiccup mode, recovers automatically after fault condition is removed.							
		48V Shut down and latch off o/p voltage, re-power on to recover.							
	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
		3.3-36V Hiccup mode, recovers automatically after fault condition is removed. 48V Shut down and latch off o/p voltage, re-power on to recover.							
	OVER TEMPERATURE	3.3–36V Hiccup mode, recovers automatically after fault condition is removed. 48V Shut down and latch off o/p voltage, re-power on to recover.							
FUNCTION	FAN ON/OFF CONTROL (Typ.)	RTH3≥50°C FAN ON, ≤40°C FAN OFF							
	WORKING TEMP.	-25 ~ +70 °C (Refer to "Derating Curve")							
ENVIRONMENT	WORKING HUMIDITY	20 = 90% RH non-condensing							
		-40 ~ +85°C, 10 ~ 95% RH							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 - +85 C.		.9					
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT		10 ~ 95% RH	·9					
ENVIRONMENT		±0.03%/°C	10 ~ 95% RH 0 ~ 50°C)		th along X, Y, Z	axes			
ENVIRONMENT	TEMP. COEFFICIENT	±0.03%/°C 10 - 500Hz, 5	10 - 95% RH 0 - 50°C) 5G 10min./1cyc	de, 60min. eac	th along X, Y, Z		LRS-350-12/2-	4 only) approve	nd
ENVIRONMENT	TEMP. COEFFICIENT VIBRATION	±0.03%/°C 10 ~ 500Hz, 5 IEC/UL 62368	10 - 95% RH 0 - 50°C) 5G 10min./1cyc	de, 60min. eac 14336-1, EAC	TP TC 004,KC		LRS-350-12/2-	4 only) approve	ed .
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	±0.03%/°C 10 = 500Hz, 5 IEC/UL 62366 VP-O/P:3KVA	10 ~ 95% RH (0 ~ 50°C) 5G 10min./1cyc 8-1, BSMI CNS 6C I/P-FG:2K	ele, 60min. eac 14336-1, EAC VAC O/P-F	TP TC 004,KC G:0.5KVAC	K60950-1(for	LRS-350-12/2-	4 only) approve	ed
unaeyyaray	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C 10 - 500Hz, (IEC/UL 6236/ I/P-O/P, 3KVA I/P-O/P, I/P-F	10 ~ 95% RH (0 ~ 50°C) 5G 10min./1cyc 3-1, BSMI CNS 3-C VP-FG:2K G, O/P-FG:100	ole, 60min. eac 14336-1, EAC VAC O/P-F OM Ohms/500\	TP TC 004,KC G:0.5KVAC VDC / 25°C/ 70°	K60950-1(for % RH			od .
ENVIRONMENT	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	±0.03%/°C 10 - 500Hz, 1 IEC/UL 62360 VP-O/P: 3KVA VP-O/P, WP-F Compliance to	10 ~ 95% RH (0 ~ 50°C) 5G 10min./1cyc 8-1, BSMI CNS 4C I/P-FG:2K G, O/P-FG:100 b BSMI CNS134	ele, 60min. eac 14336-1, EAC VAC O/P-F 0M Ohms/500V	TP TC 004,KC G:0.5KVAC VDC / 25°C / 70° C 020,KC KN32	K60950-1(for % RH .KN35(for LRS			d
unaeyeran	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	±0.03%/C 10 - 500Hz, t IEC/UL 6236/ I/P-O/P; 3KVA I/P-O/P, I/P-F Compliance to	10 ~ 95% RH (0 ~ 50°C) 5G 10min./1cyc 8-1, BSMI CNS 3C VP-FG:2K G, O/P-FG:100 9 BSMI CNS134 9 EAC TP TC 02	ole, 60min. eac 14336-1. EAC VAC O/P-F OM Ohms/500\ 138, EAC TP To 20,KC KN32,KI	TP TC 004,KC G:0.5KVAC VDC / 25°C/ 70° C 020,KC KN32 N35(for LRS-35)	K60950-1(for % RH .KN35(for LRS			ed
unaeyeran	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	±0.03%/°C 10 - 500Hz, 1 IEC/UL 62360 VP-O/P: 3KVA VP-O/P, WP-F Compliance to	10 ~ 95% RH (0 ~ 50°C) 5G 10min./1cyc 3-1, BSMI CNS 3-1, BSMI CNS G, O/P-FG:100 5 BSMI CNS134 5 EAC TP TC 02 in. MIL-HDB	ele, 60min. eac 14336-1, EAC VAC O/P-F 0M Ohms/500V	TP TC 004,KC G:0.5KVAC VDC / 25°C/ 70° C 020,KC KN32 N35(for LRS-35)	K60950-1(for % RH .KN35(for LRS			ad .

NOTE

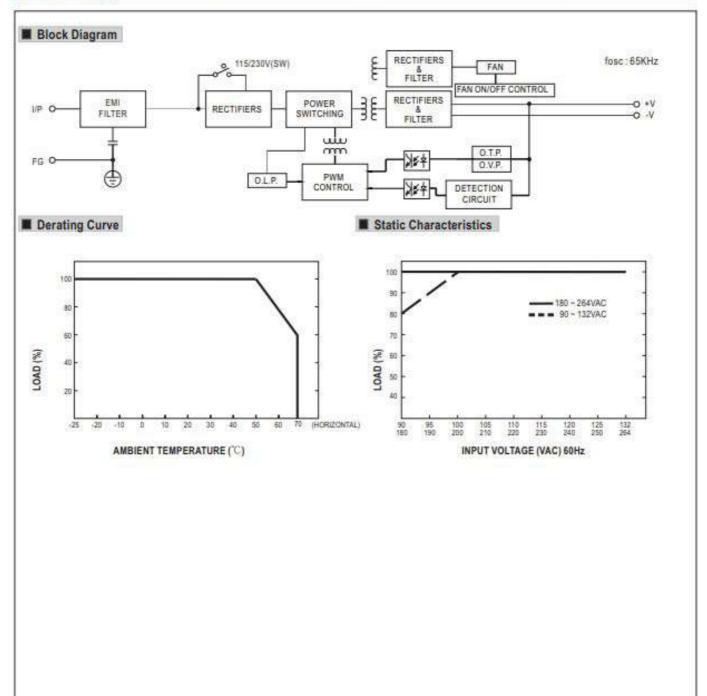
- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- Line regulation is measured from low line to high line at rated load.
- 5. Load regulation is measured from 0% to 100% rated load.
- Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.
- 7.The 150% peak 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 for over 1 second and will recover once it resumes to the rated current level(115VAC/230VAC).
- The ambient temperature derating of 5 /1000m is needed for operating altitude greater than 2000m(6500ft).
- This power supply does not meet the harmonic current requirements outlined by EN61000-3-2. Please do not use this power supply under the following conditions:
 - a) the end-devices is used within the European Union, and
 - b) the end-devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and
 - c) the power supply is:
 - installed in end-devices with average or continuous input power greater than 75W, or
 - belong to part of a lighting system

xception:

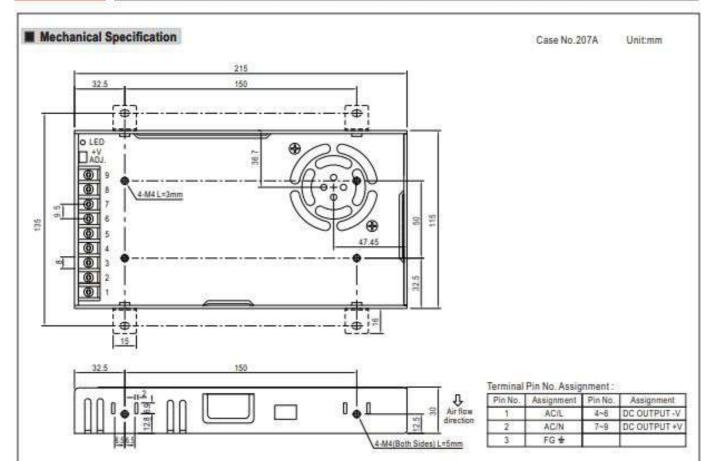
Power supplies used within the following end-devices do not need to fulfill EN61000-3-2.

- a) professional equipment with a total rated input power greater than 1000W;
- b) symmetrically controlled heating elements with a rated power less than or equal to 200W









■ Installation Manual

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