

LRS-35 series







S/NZS60950-1 GB 4943.1

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 second
- No load power consumption<0.2W

UL62368-1

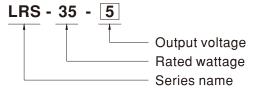
- · Miniature size and 1U low profile
- High operating temperature up to 70°C
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- Compliance to IEC/BS EN/EN 60335-1(PD3) and IEC/BS EN/EN61558-1, -2-16 for household appliances
- · Operating altitude up to 5000 meters (Note.8)
- · 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

Description

LRS-35 series is a 35W single-output enclosed type power supply with 30mm of low profile design. Adopting the full range 85~264VAC input, the entire series provides an output voltage line of 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 89%, the design of metallic mesh case enhances the heat dissipation of LRS-35 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 0.2W), it allows the end system to easily meet the worldwide energy requirement. LRS-35 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 GB 4943.1. LRS-35 series serves as a high price-to-performance power supply solution for various industrial applications.

Model Encoding





Applications

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

GTIN CODE

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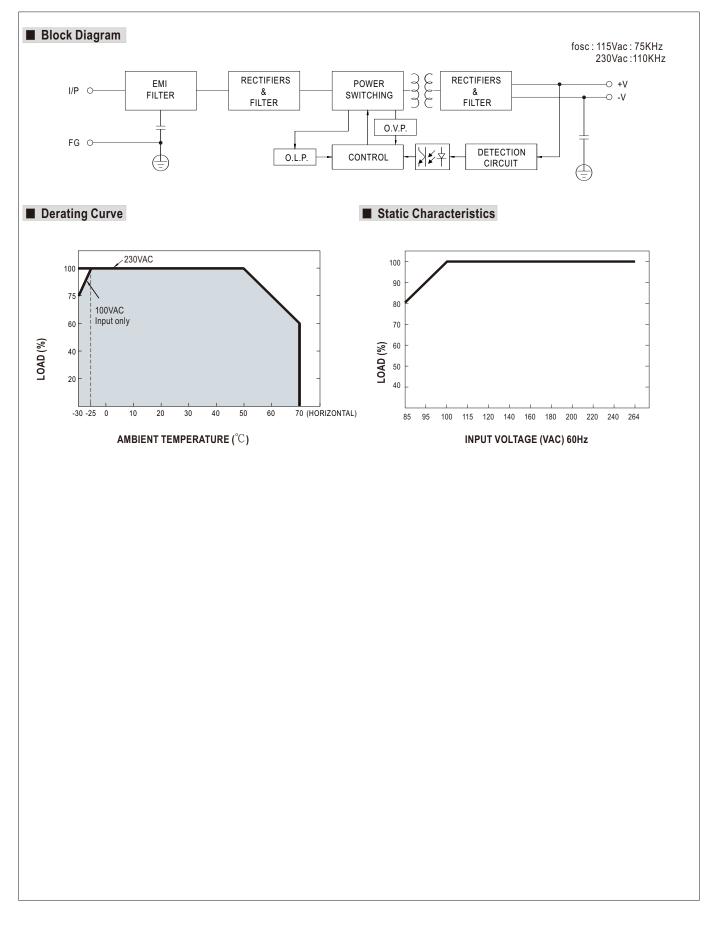
SPECIFICATION

MODEL		LRS-35-5	LRS-35-12	LRS-35-15	LRS-35-24	LRS-35-36	LRS-35-48	
	DC VOLTAGE	5V	12V	15V	24V	36V	48V	
OUTPUT	RATED CURRENT	7A	3A	2.4A	1.5A	1A	0.8A	
	CURRENT RANGE	0~7A	0~3A	0~2.4A	0~1.5A	0~1A	0~0.8A	
	RATED POWER	35W	36W	36W	36W	36W	38.4W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	4.5~5.5V	10.2 ~ 13.8V	13.5 ~ 18V	21.6~28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION Note.5	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1000ms, 30ms/230VAC 2000ms, 30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	30ms/230VAC 12ms/115VAC at full load						
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 373VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
NIDUT	EFFICIENCY (Typ.)	82%	86%	86%	88%	88%	89%	
INPUT	AC CURRENT (Typ.)	0.7A/115VAC 0.42A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 45A/230VAC						
	LEAKAGE CURRENT	<0.75mA / 240VAC						
		110 ~ 150% rated output power						
	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION		5.75~6.9V	13.8 ~ 16.2V	18.75 ~ 21.75	/ 28.8 ~ 33.6V	41.4 ~ 48.6V	55.2~64.8V	
	OVER VOLTAGE	Protection type :	Shut down o/p vol	tage, re-power on t	o recover			
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85 $^\circ\mathrm{C}$, 10 ~ 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; According to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664-1, BS EN/EN62477-1; altitude up to 2000 meters						
SAFETY &	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16,GB 4943.1, BSMI CNS15598-1, EAC TP TC 004,AS/NZS 60950.1(by CB),KC K60950-1(for LRS-35-12/24 only), BIS IS13252(Part1): 2010/IEC 60950-1: 2005(NOTE 10) approved						
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH						
(Note 9)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN55014, BS EN/EN61000-3-2,-3, GB17625.1,GB/T 9254.1, BSMI CNS15936, EAC TP TC 020,KC KN32,KN35(for LRS-35-12/24 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-35-12/24 only)						
OTHERS	MTBF	3201.5K hrs min. Telcordia SR-332 (Bellcore) ; 655.5Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	99*82*30mm (L*W*H)						
	PACKING	0.21Kg ; 60pcs/14Kg/0.93CUFT						
NOTE	 All parameters NOT spe 2. Ripple & noise are mea Tolerance : includes set Line regulation is measis Load regulation is measis Length of set up time is time. 5V when the load factor beyond the specification The ambient temperature The power supply is con mounting the unit on a 3 EMC directives. For gui 	sured at 20MHz of t up tolerance, line ured from low line sured from 0% to measured at colo * 0~50%, the switt ns. re derating of 5°C nsidered a compo 360mm*360mm n	of bandwidth by u e regulation and le to high line at ra 100% rated load. d first start. Turnir ching power less c/1000m is neede onent which will b netal plate with 1	ising a 12" twisted bad regulation. ted load. Ing ON/OFF the po- is reduced by bur d for operating alti e installed into a fi mm of thickness.	wer supply very qui st operation, which itude greater than 2 nal equipment. All t The final equipment	d with a 0.1uf & 47 ickly may lead to ir will cause ripple ar 000m(6500ft). he EMC tests are l must be re-confirm	ruf parallel capacito acrease of the set u ad ripple noise to go been executed by ned that it still meet	

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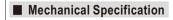
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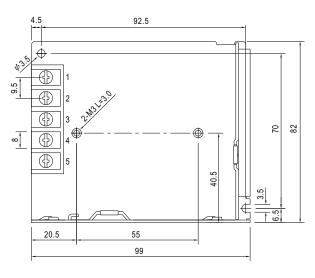


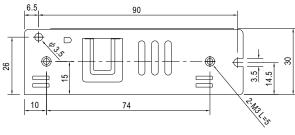


35W Single Output Switching Power Supply

LRS-35 series







Case No.239A	Unit:mm	Tolerance:±1

Terminal Pin No. Assignment

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

Installation Manual

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