

LRS-35 series



Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 second
- No load power consumption<0.2W
- Miniature size and 1U low profile
- High operating temperature up to $70^\circ C$
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- Compliance to IEC/EN 60335-1(PD3) and IEC/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
- 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 EN60950-1, EN60335-1, EN61558-1/-2-16, UL60950-1 and GB4943. LRS-35 series serves as a high price-to-performance power supply solution for various industrial applications.

Model Encoding

LRS - 35 - 5 Output voltage Output wattage Series name Distributed by AMLUX srl, 46042, Castel Goffredo (MN), info@amlux.it, www.amlux.it



Applications

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





SPECIFICATION

MODEL		LRS-35-5	LRS-35-12	LRS-35-15	LRS-35-24	LRS-35-36	LRS-35-48	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V	48V	
	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						
NPUT	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						
PROTECTION	OVER LOAD	110 ~ 150% rated output power						
				ers automatically a				
	OVER VOLTAGE	5.75 ~ 6.9V	13.8 ~ 16.2V	18.75 ~ 21.75V	28.8 ~ 33.6V	41.4 ~ 48.6V	55.2 ~ 64.8V	
		Protection type : Shut down o/p voltage, re-power on to recover						
ENVIRONMENT SAFETY & EMC (Note 9)	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
		10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EN60335-1, EN61558-1/-2-16, CCC GB4943 approved						
	ISOLATION RESISTANCE							
		Compliance to EN55022 (CISPR22), GB9254 Class B, EN55014, EN61000-3-2,-3						
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	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A 763.6K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	99*82*30mm (L*W*H)						
	PACKING	0.23Kg ; 60pcs/14.8Kg/0.88CUFT						
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set u time. 5V when the load factor 0~50%, the switching power less is reduced by burst operation, which will cause ripple and ripple noise to g beyond the specifications. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft). The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still mee EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 							



LRS-35 series





35W Single Output Switching Power Supply

LRS-35 series

Case No.239A Unit:mm



Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG ≟		