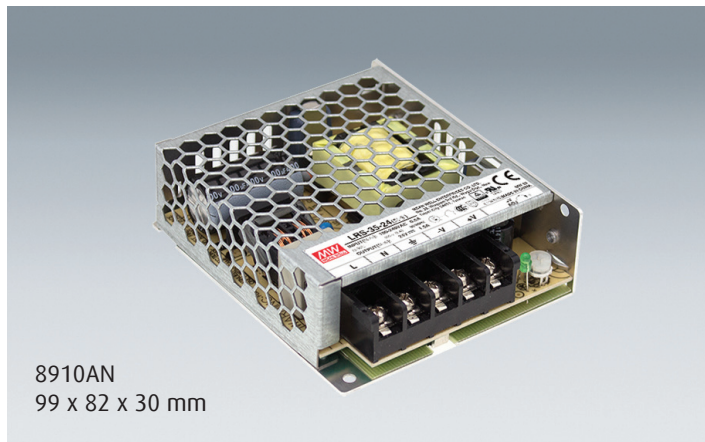


LRS-35 Series

35W Single Output Switching Power Supply



8910AN
99 x 82 x 30 mm

Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- No load power consumption <0.2W
- Miniature size and 1U low profile
- Operating altitude up to 5000 meters
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High Efficiency, long life and high reliability
- 3 years warranty



Specification

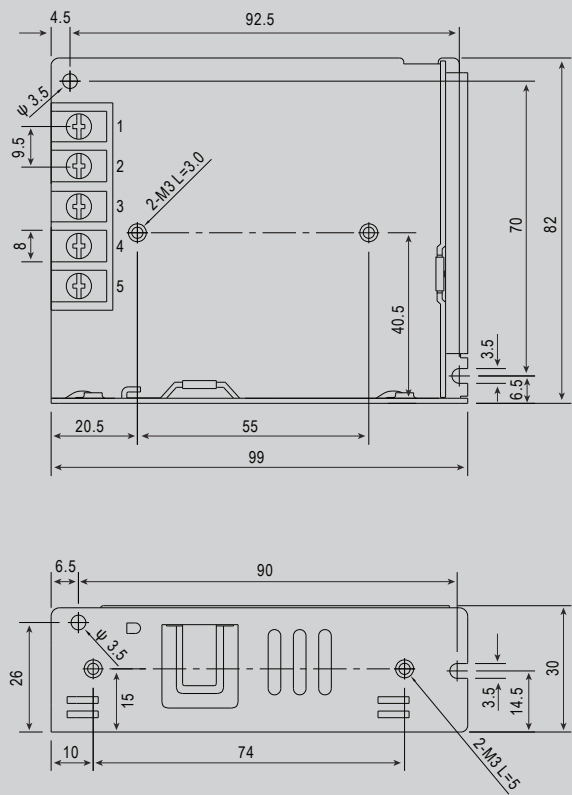
INPUT	Voltage	85V ~ 264VAC		120 ~ 373VDC			
	Frequency	47 ~ 63 Hz					
	Efficiency	82%	86%	86%	88%	88%	89%
	AC Current	0.7A /115VAC	0.42A/230VAC				
	Inrush Current (Typ.)	Cold Start 45A/230VAC					
	Leakage	<0.75mA/240VAC					
OUTPUT	MODEL No.	LRS-35-5	LRS-35-12	LRS-35-15	LRS-35-24	LRS-35-36	LRS-35-48
	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.	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	± 2.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	Line Regulation	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	Load Regulation	± 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	30ms/230VAC 12ms/115 at full load					
PROTECTION	Overload	110~150% rated output power					
		Protection Type: Hiccup mode, recovers automatically after fault condition is removed					
	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	Working Temp.	-30 ~ +70°C (Refer to “Derating Curve”)					
	Working Humidity	20 ~ 90% RH non-condensing					
	Storage Temp., Humidity	-40 ~ +85°C, 10~95%RH					
	Temp. Co-efficient	±0.03%/°C (0~50°C)					
	Vibration	10~500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC	Safety Standards	UL60950-1, TUV EN60950-1, EN60335-1, EN61558-1/-2-16, CCC GB4943 approved					
	Withstand Voltage	I/P-O/P:3.75KVAC	I/P-FG:2KVAC	O/P-FG:1.25KVAC			
	Isolation Resistance	I/P-OP, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70%RH					
	EMC Emission	Compliance to EN55022 (CISPR22), GB9254 Class B, EN55014, EN61000-3-2,-3					
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A					
OTHERS	M.T.B.F.	763.6K hrs min. MIL-HDBK-217F (25°C)					
	Packaging	0.23Kg; 60pcs/14.8Kg/0.88CUFT					

1. All parameters not specially mentioned are measured at 230VAC input, rated load and 25°C 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.
4. Line regulation is measured from low line to high line at rated load.
5. Load regulation is measured from 0% to 100% rated load.
6. 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. 5V when the load factor 0~50%, the switching power less is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications.
8. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m (6500ft).
9. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."

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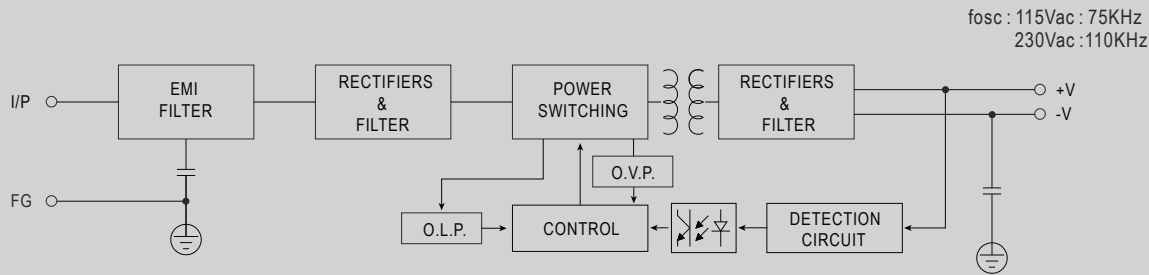
Mechanical Specification



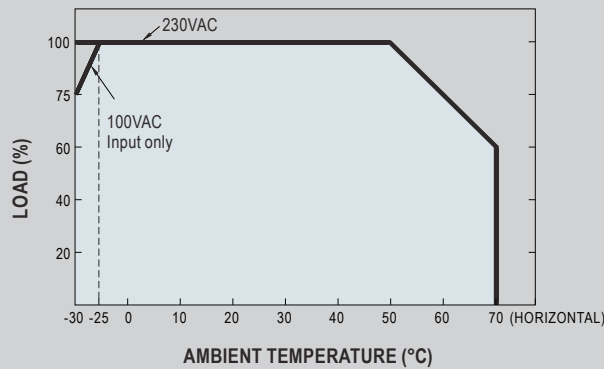
Terminal Pin No.Assignment

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

Block Diagram



Derating Curve



Static Characteristics

