



100W Single Output Power Supply

LRS-100W Series



■ Feature :

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 second
- Small volume and light weight
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Low power dissipation
- Operating altitude up to 5000 meters (Note.6)
- LED indicator for power on
- 100% full load burn-in test
- High efficiency, long life and high reliability

SPECIFICATION



MODEL		LRS-100-5	LRS-100-12	LRS-100-15	LRS-100-24	LRS-100-36	LRS-100-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	CURRENT RANGE	0-18A	0-8.5A	0-7A	0-4.5A	0-2.8A	0-2.3A
	RATED CURRENT	18A	8.5A	7A	4.5A	2.8A	2.3A
	RATED POWER	90W	102W	105W	108W	100.8W	110.4W
	RIPPLE&NOISE	100mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	±10%	±10%	±10%	±10%	±10%	±10%
	VOLTAGE TOLERANCE	±3%	±2%	±1%	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2%	±1%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	800ms, 30ms, 55ms/230VAC (Full load)					
INPUT	VOLTAGE RANGE	90-264VAC, 127-373VDC (Withstand 300VAC surge input for 5 second)					
	FREQUENCY RANGE	47-63Hz					
	EFFICIENCY(Typ)	86%	88%	88.5%	90%	90.5%	91%
	AC CURRENT	1.9A/115V, 1.2A/230VAC					
	INRUSH CURRENT (Typ)	COLD START 50A/230VAC					
	LEAKAGE CURRENT	<0.75mA/240VAC					
PROTECTION	OVER LOAD	110%-150%rated output power					
		Protection type: Hiccup mode recovers automatically after fault condition is removed					
	OVER VOLTAGE	115%-135%rated output power					
ENVIRONMENT	WORKING TEMP	-30℃~+70℃ (Refer to "Derating Curve")					
	WORKING HUMIDITY	20%~90%RH non-condensing					
	STORAGE TEMP. HUMIDITY	-40℃~+85℃; 10%~95%RH non-condensing					
	VIBRATION	10~500Hz, 3G 10min./1 cycle, 60min. each along X, Y, Z axes					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
SAFETY	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25℃/70%RH					
	SAFETY STANDARDS	Compliance to UL60950-1, TUV EN60950-1, GB4943					
	EMC EMISSION	Compliance to EN55022(CISPR22) Class B, GB9254 Class B, EN55014, EN61000-3-2, 3					
	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-1					
	DIMENSION	129*97*30mm (L*W*H)					
OTHERS	PACKING	0.32kg/00pcs/00kg/0000CBM					

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 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. The ambient temperature derating of 5/1000m is needed for operating altitude greater than 2000m(6500ft).
7. 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.



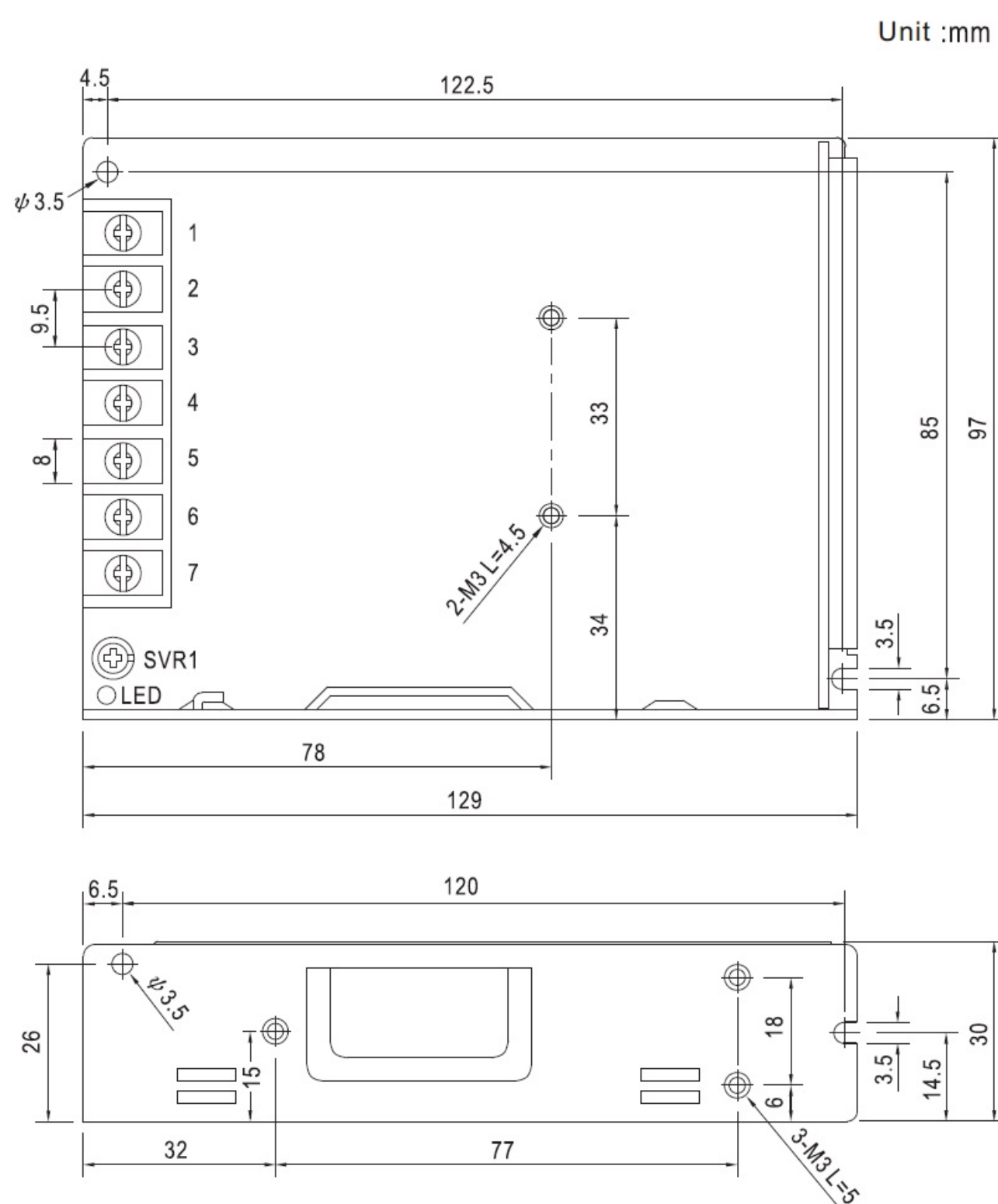
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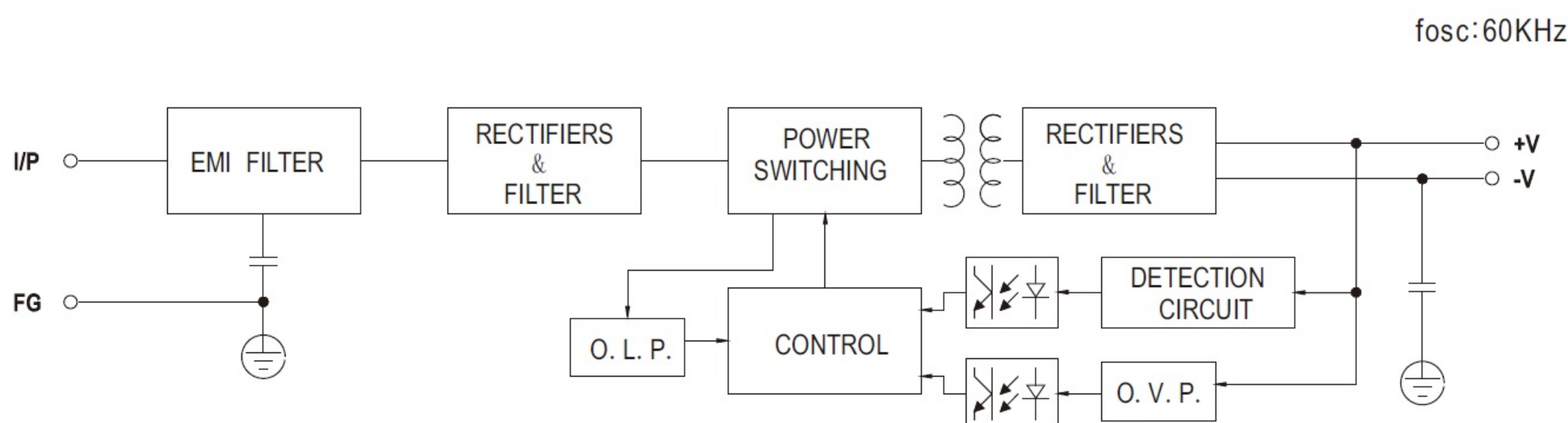
Mechanical Specification

Terminal Pin NO. Assignment

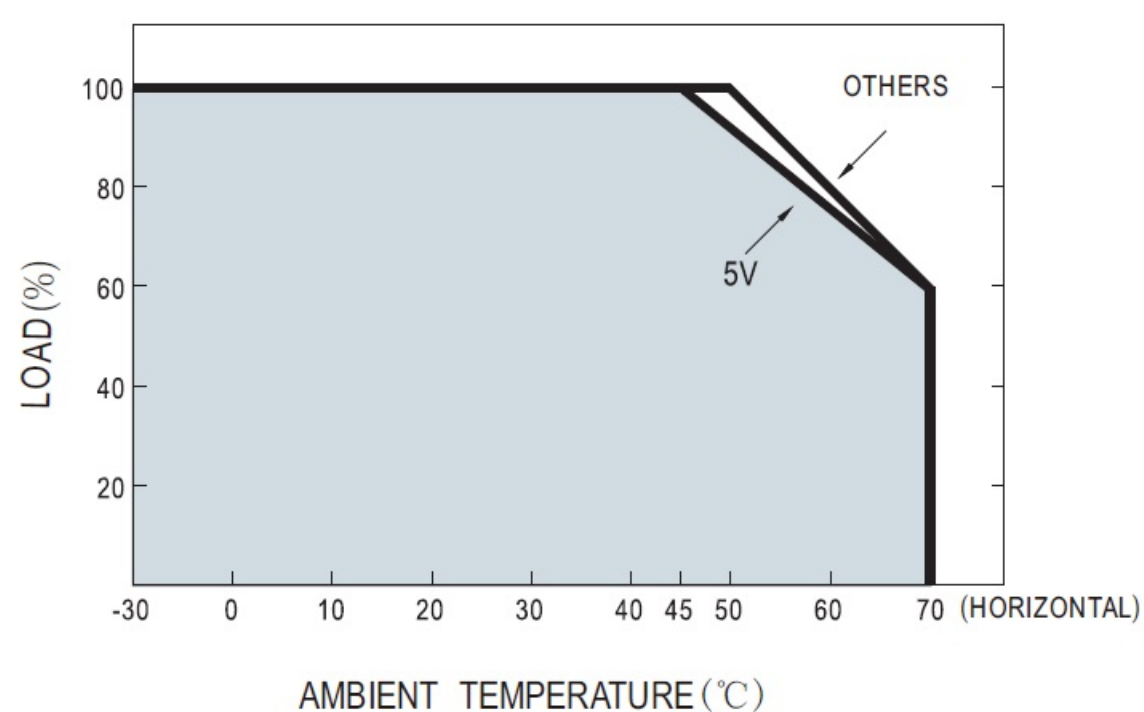
Pin NO.	Assignment	Pin NO.	Assignment
1	AC/N	4,5	DC OUTPUT -V
2	AC/L	6,7	DC OUTPUT +V
3	FG $\equiv$		



Block Diagram



Derating Curve



Static Characteristics

