



■ 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

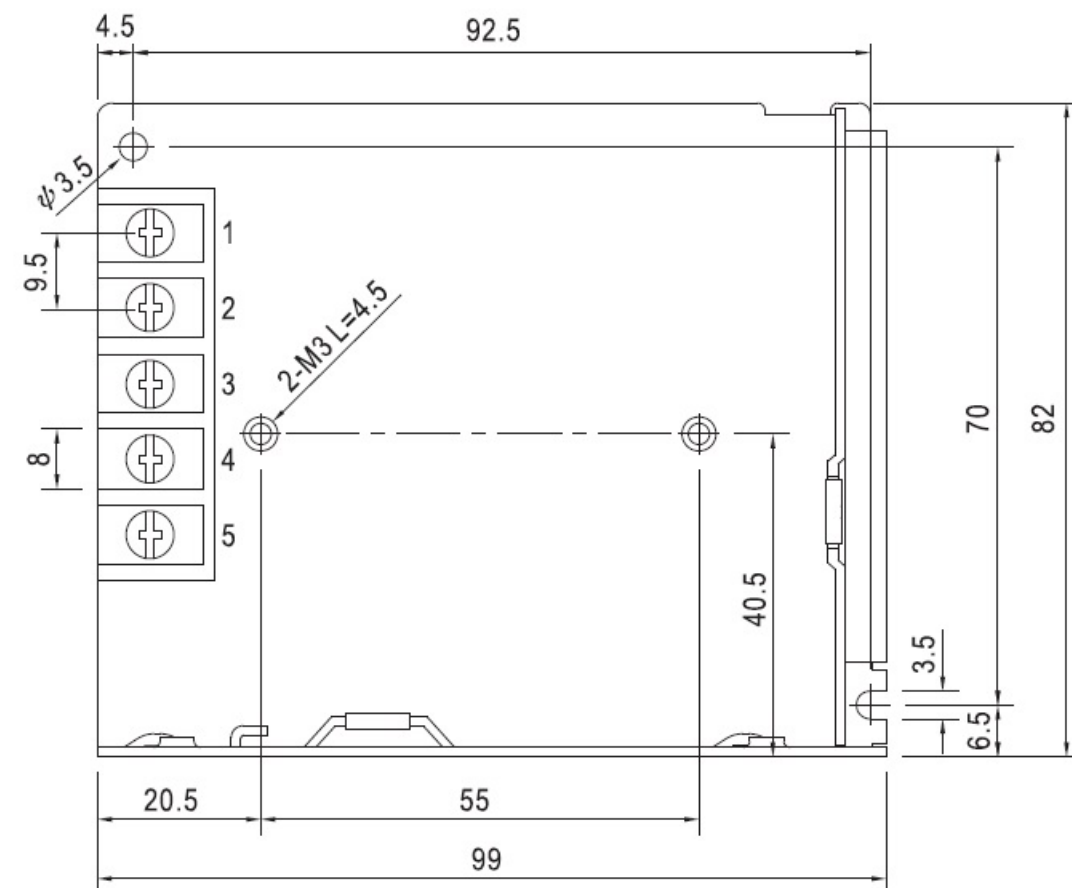


MODEL		LRS-50-5	LRS-50-12	LRS-50-15	LRS-50-24	LRS-50-36	LRS-50-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	CURRENT RANGE	0-10A	0-4.2A	0-3.4A	0-2.2A	0-1.45A	0-1.1A
	RATED CURRENT	10A	4.2A	3.4A	2.2A	1.45A	1.1A
	RATED POWER	50W	50.4W	51W	52.8W	52.2W	52.8W
	RIPPLE&NOISE	100mVp-p	120mVp-p	120mVp-p	150mVp-p	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, 30ms/230VAC (Full load)					
INPUT	VOLTAGE RANGE	90-264VAC, 127-373VDC (Withstand 300VAC surge input for 5 second)					
	FREQUENCY RANGE	47-63Hz					
	EFFICIENCY(Typ)	83%	86%	87%	88%	89%	90%
	AC CURRENT	0.95A/115V, 0.56A/230VAC					
	INRUSH CURRENT (Typ)	COLD START 45A/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 Protection type: Shut down o/p voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP	-30°C ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20% ~ 90% RH non-condensing					
	STORAGE TEMP. HUMIDITY	-40°C ~ +85°C; 10% ~ 95% RH non-condensing					
	VIBRATION	10 ~ 500Hz, 3G 10min./1 cycle, 60min. each along X, Y, Z axes					
SAFETY	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 2KVAC O/P-FG: 0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/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					
OTHERS	DIMENSION	99*82*30mm (L*W*H)					
	PACKING	0.21kg/00pcs/00kg/0000CBM					
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 0% to 100% rated load.</p> <p>6. The ambient temperature derating of 5/1000m is needed for operating altitude greater than 2000m(6500ft).</p> <p>7. The power supply is considered a component which will be installed into a final equipment.</p> <p>The final equipment must be re-confirmed that it still meets EMC directives.</p>						



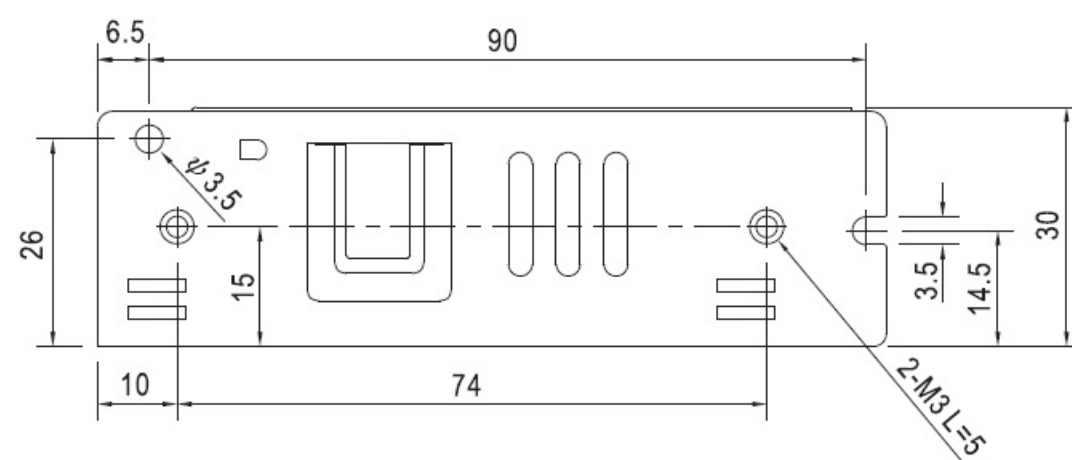
## Mechanical Specification

Unit :mm



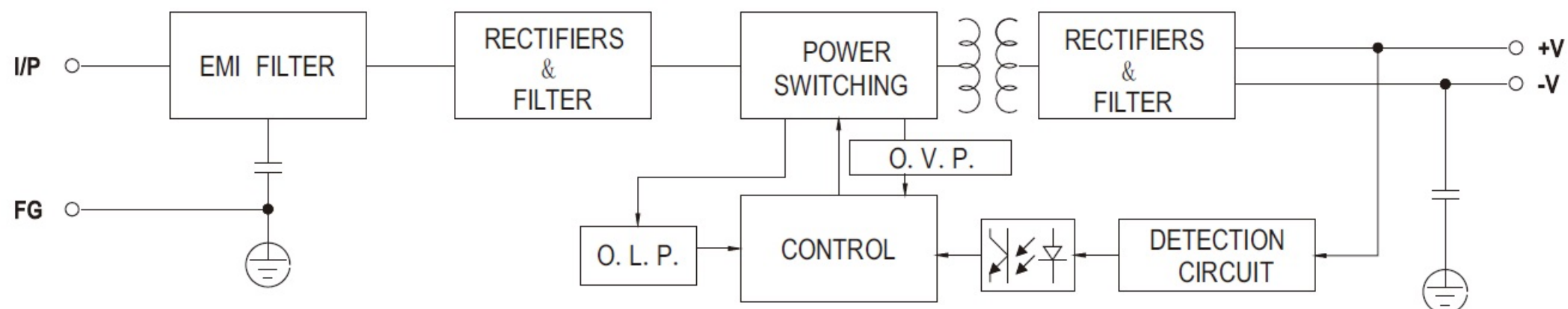
Terminal Pin NO. Assignment

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

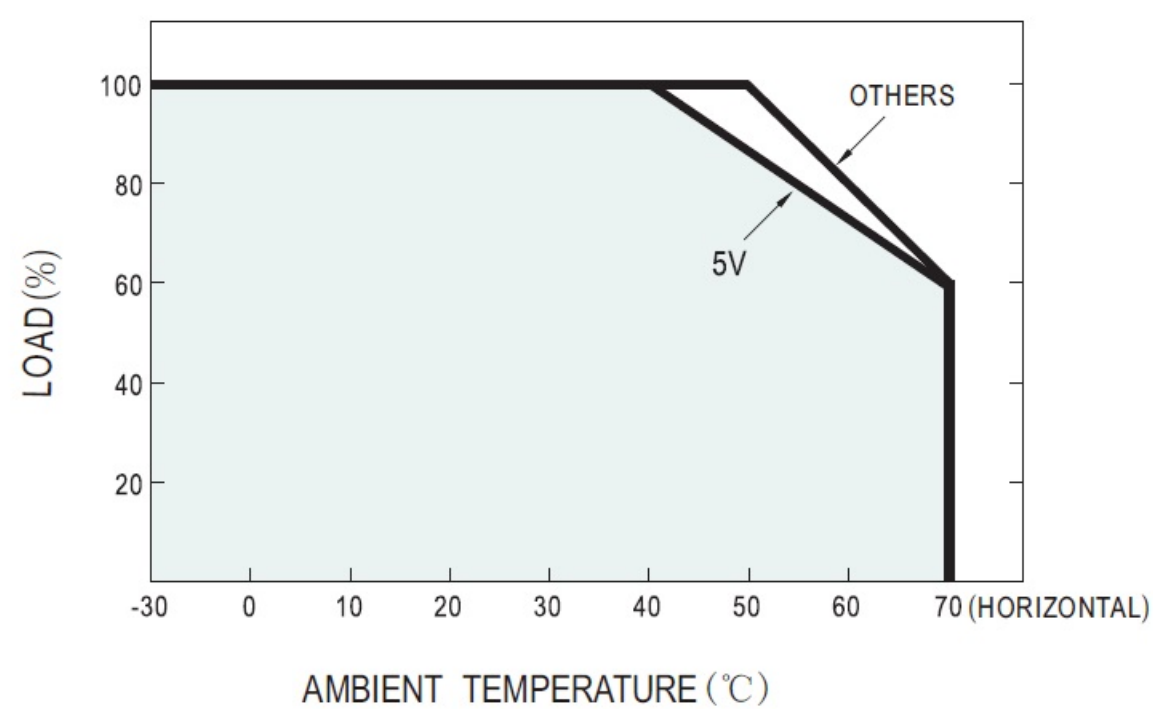


## Block Diagram

fosc:60KHz



## Derating Curve



## Static Characteristics

