



























## Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 second
- No load power consumption<0.3W</li>
- · 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.7)
- 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

# Applications

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

#### GTIN CODE

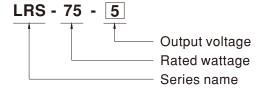
MW Search: https://www.meanwell.com/serviceGTIN.aspx

## Description

LRS-75 series is a 75W 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 91.5%, the design of metallic mesh case enhances the heat dissipation of LRS-75 that the whole series operates from -30 $^\circ$ C through 70 $^\circ$ C under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.3W), it allows the end system to easily meet the worldwide energy requirement. LRS-75 has the complete protection functions and 5G antivibration 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-75 series serves as a high price-to-performance power supply solution for various industrial applications.

#### Model Encoding

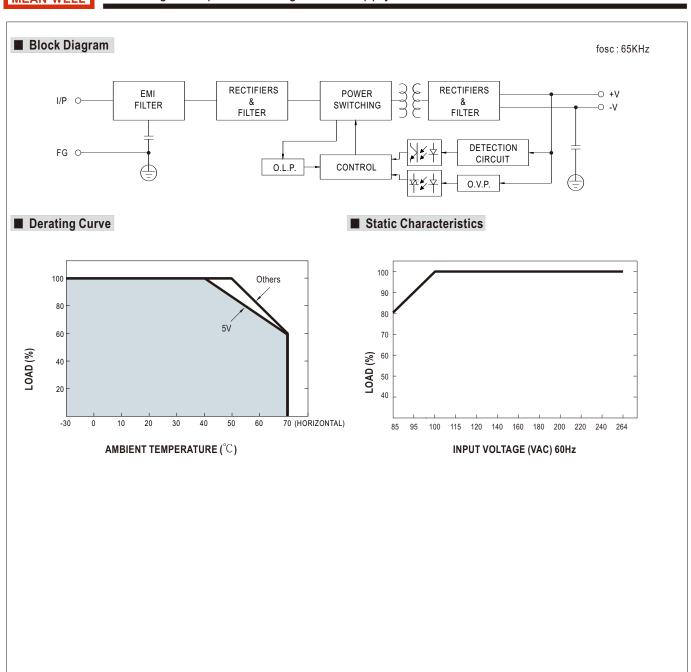




#### **SPECIFICATION**

MODEL		LRS-75-5	LRS-75-12	LRS-75-15	LRS-75-24	LRS-75-36	LRS-75-48	
	DC VOLTAGE	5V	12V	15V	24V	36V	48V	
	RATED CURRENT	14A	6A	5A	3.2A	2.1A	1.6A	
	CURRENT RANGE	0 ~ 14A	0 ~ 6A	0 ~ 5A	0 ~ 3.2A	0 ~ 2.1A	0 ~ 1.6A	
OUTPUT	RATED POWER	70W	72W	75W	76.8W	75.6W	76.8W	
	RIPPLE & NOISE (max.) Note.2	100mVp-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	500ms, 30ms/230VAC 500ms,30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	60ms/230VAC 12ms/115VAC at full load						
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 373VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	86.5%	89%	89%	90%	91.5%	91.5%	
INPUT	AC CURRENT (Typ.)	1.4A/115VAC 0.85A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 65A/230VAC						
	LEAKAGE CURRENT	<0.75mA / 240VAC						
		110 ~ 150% rated output power						
PROTECTION	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
		5.75 ~ 6.75V	13.8 ~ 16.2V	18.75 ~ 21.75V		41.4 ~ 48.6V	55.2 ~ 64.8V	
	OVER VOLTAGE					1111 10.01	00.2 01.01	
ENVIRONMENT	WORKING TEMP.	Protection type: Shut down o/p voltage, re-power on to recover  -30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	0.00						
	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; Compliance to BS EN/EN61558, BS EN/EN50178,BS EN/EN60664-1, BS EN/EN62477-1; altitude up to 2000 meters						
	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 62368.1 (by CB), KC62368-1, BIS IS13252 (Part1): 2010/IEC 60950-1: 2005 (NOTE 9) approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC						
EMC (Note 8)	ISOLATION RESISTANCE EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN55014, BS EN/EN61000-3-2,-3,						
	EMC IMMUNITY	GB17625.1,GB/T 9254.1, BSMI CNS15936, EAC TP TC 020,KC KSC 9832, KSC 9835  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 KSC 9832, KSC 9835						
	MTBF	3334.3K hrs min. Telcordia SR-332 (Bellcore); 667.2Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	99*97*30mm (L*W*H)						
	PACKING	,		-				
NOTE	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. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).  8. 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 meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)							



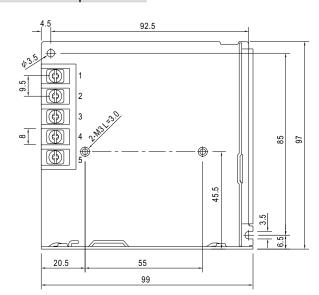


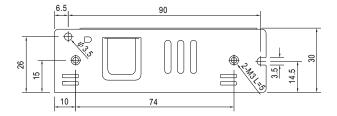
Tolerance:±1

Unit:mm



## ■ Mechanical Specification





Terminal Pin No. Assignment

Case No.240A

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

### ■ Installation Manual

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