Fuente de alimentación conmutada de salida única de 75W

LRS-75 series

User's Manual

R33100
RoHS

IS 13252(Part 1):2010/
IEC 60950-1:2005

R-41179035

AS/NZS62368-1 GB4943.1 UL62368-1 TP TC004 IEC62368-1 (for LRS-75-12/24 only)

ECO Automate Industrial Security Network Telecom

Features

- Entrada de CA universal / rango completo
- Resiste una entrada de sobretensión de 300 VCA durante 5 segundos
- Consumo de energía sin carga <0.3W
- Tamaño miniatura y perfil bajo de 1U
- Alta temperatura de funcionamiento hasta 70 ℃
- Protecciones: Cortocircuito / Sobrecarga / Sobretensión
- Refrigeración por convección de aire libre
- Cumplimiento de IEC/BS EN/EN 60335-1(PD3) e IEC/BS EN/EN61558-1, -2-16 para electrodomésticos
- Altitud de operación hasta 5000 metros (Nota.7)
- Soportar prueba de vibración 5G
- Alta eficiencia, larga vida y alta confiabilidad
- ndicador LED de encendido
- Categoría de sobretensión Ⅲ
- 100% prueba de quemado a plena carga
- 3 años de garantía

Applications

- Maquinaria de automatización industrial
- Sistema de control industrial
- Equipo mecánico y eléctrico
- Instrumentos, equipos o aparatos electrónicos
- Electrodomésticos

GTIN CODE

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

Description

La serie LRS-75 es una fuente de alimentación de tipo cerrado de salida única de 75 W con un diseño de perfil bajo de 30 mm Adoptando el rango completo de entrada de 85 ~ 264 V CA, toda la serie proporciona una línea de voltaje de salida de 5 V, 12 V, 15 V, 24 V, 36 V y 48 V

Además de la alta eficiencia de hasta el 91,5 %, el diseño de la carcasa de malla metálica mejora la disipación de calor del LRS-75 que toda la serie opera desde -30 ℃ hasta 70 ℃ bajo convección de aire sin ventilador. consumo de energía (menos de 0,3 W), permite que el sistema final cumpla fácilmente con los requisitos de energía en todo el mundo. LRS-75 tiene funciones de protección completas y capacidad antivibración 5G; cumple con las normas de seguridad internacionales como TUV BS EN /EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16, UL62368-1 y GB4943 La serie LRS-75 sirve como una solución de fuente de alimentación de alta relación precio-rendimiento para diversas aplicaciones industriales

Model Encoding

LRS - 75 - 5

- 5 — Voltaje de salida
- 75 — Potencia nominal
- LRS — Nombre de la serie

SPECIFICATION

MODEL		LRS-75-5	LRS-75-12	LRS-75-15	LRS-75-24	LRS-75-36	LRS-75-48
OUTPUT	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
	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					
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 373VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	86.5%	89%	89%	90%	91.5%	91.5%
	AC CURRENT (Typ.)	1.4A/115VAC 0.85A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 65A/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	5.75 ~ 6.75V	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℃ (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)					
	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 & EMC (Note 8)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16,CCC GB4943.1, BSMI CNS14336-1, EAC TP TC 004,AS/NZS 62368.1(by CB),KC K60950-1(for LRS-75-12/24 only), BIS IS13252(Part1): 2010/IEC 60950-1: 2005 approved					
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25℃/ 70% RH					
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN55014, BS EN/EN61000-3-2,-3, GB/T 9254, BSMI CNS13438, EAC TP TC 020,KC KN32,KN35(for LRS-75-12/24 only)					
	EMC IMMUNITY	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 KN32,KN35(for LRS-75-12/24 only)					
OTHERS	MTBF	3334.3K hrs min. Telcordia SR-332 (Bellcore) ; 667.2Khrs min. MIL-HDBK-217F (25℃)					
	DIMENSION	99*97*30mm (L*W*H)					
	PACKING	0.25Kg ; 45pcs/ 12.25Kg/ 0.77CUFT					

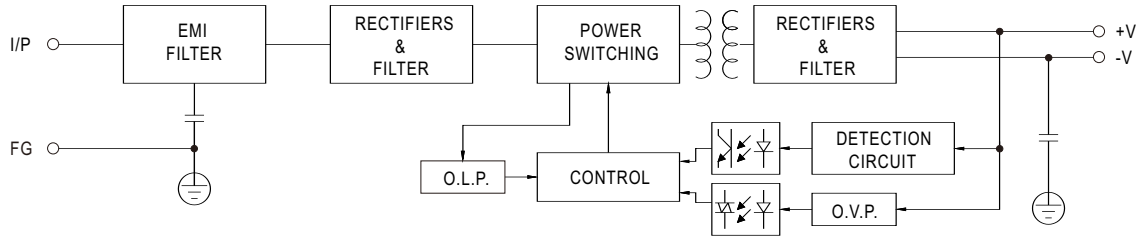
NOTE

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 & 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℃/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 http://www.meanwell.com)

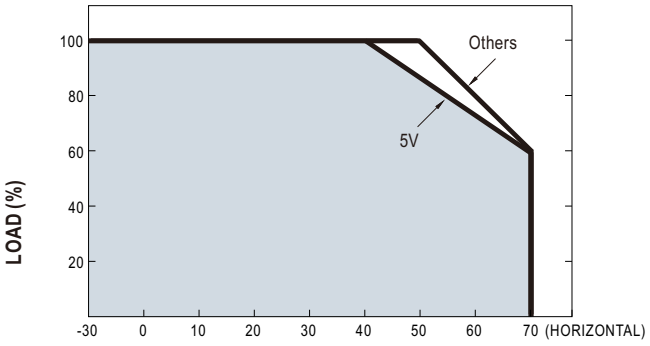
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

■ Block Diagram

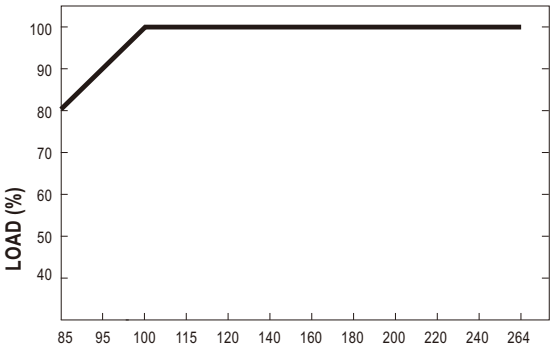
fosc : 65KHz



■ Derating Curve

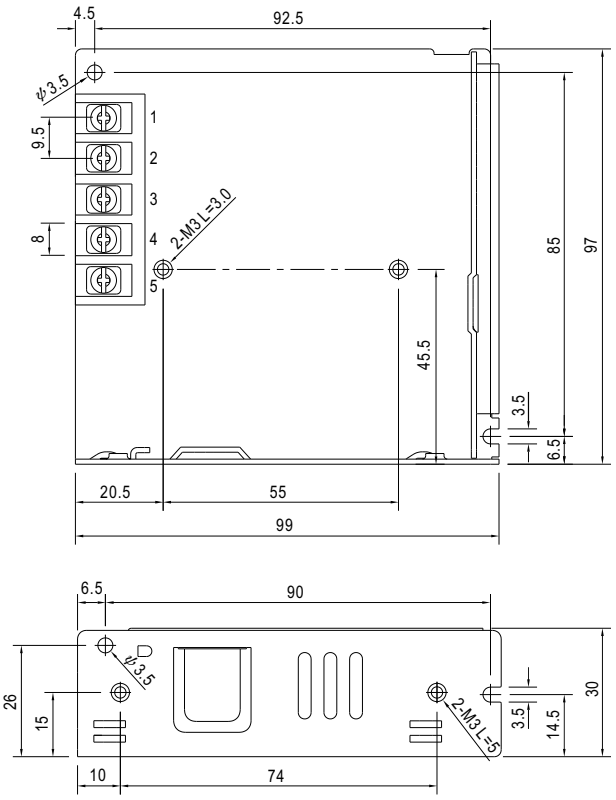


■ Static Characteristics



■ Mechanical Specification

Case No.240A 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 ⏚		

■ Installation Manual

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