



Dimension: 99*97*30mm



■ Features:

- Universal AC input/Full range
- Miniature size and 1U low profile, low weight
- Protections: Short circuit/Overload/Over voltage
- Cooling by free air convection
- No load power consumption < 0.5W
- Operating altitude up to 5000 meters (Note6)
- LED indicator for power on
- 100% full load burn-in test
- High efficiency, long life and high reliability
- 2 years warranty

■ Applications:

- LED lighting
- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

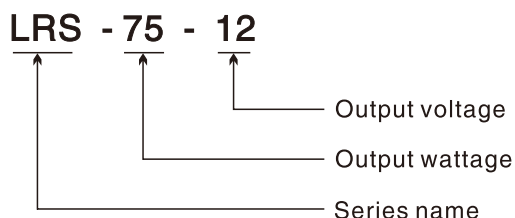
■ Description:

LRS-75 series is a 75W single-output enclosed type power supply with 30mm of low profile design. Adopting the full range 85~264 VAC 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%, the design of metallic mesh case enhances the heat dissipation of LRS-75 that the whole series operates from -30°C through 70°C under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.5W), it allows the end system to easily meet the worldwide energy requirement. LRS-75 has the complete protection functions and 3G anti-vibration capability; it is complied with the international safety regulations such as TUV EN60950-1, UL60950-1 and Gb4943, TUV EN61347-1, UL 61347-1

LRS-75 series serve 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 |
|----------------------|---|---|-----------|-----------|-----------|-----------|-----------|
| 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 | 100mVp-p | 120mVp-p | 120mVp-p | 150mVp-p | 200mVp-p | 200mVp-p |
| | DC voltage ADJ. range | ± 10% | ± 10% | ± 10% | ± 10% | ± 10% | ± 10% |
| | Voltage tolerance <small>Note.3</small> | ± 3% | ± 2% | ± 1% | ± 1% | ± 1% | ± 1% |
| | Line regulation <small>Note.4</small> | ± 0.5% | ± 0.5% | ± 0.5% | ± 0.5% | ± 0.5% | ± 0.5% |
| | Load regulation <small>Note.5</small> | ± 2% | ± 1% | ± 0.5% | ± 0.5% | ± 0.5% | ± 0.5% |
| | Setup, rise, hold up 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 | | | | | |
| | AC current | 1.4A/115VAC 0.85/230VAC | | | | | |
| | Efficiency | 86% | 88% | 89% | 90% | 91% | 91% |
| | Inrush current | Cold start 50A/230VAC | | | | | |
| | leakage current | < 0.75mA/240VAC | | | | | |
| Protection | Overload | Rated output power 110% ~ 150% Start overload protection | | | | | |
| | | Protection type: hiccup mode, auto-recovery after fault condition is removed | | | | | |
| | Over voltage | Rated output voltage 115%~135% Start over voltage protection | | | | | |
| | | Protection type: cut off the output, auto-recovery after fault condition is removed | | | | | |
| Environment | Working temperature | -30°C ~ +70°C (Please refer to "derating curve") | | | | | |
| | Working humidity | 20%~90%RH Non-condensing | | | | | |
| | Storage temp& humidity | -40°C ~ +85°C; 10%~95%RH Non-condensing | | | | | |
| | Withstand vibration | 10~500Hz, 3G 10min./1Cycle, Period for 60min, Each axes | | | | | |
| Safety | Withstand voltage | I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC | | | | | |
| | Isolation resistance | I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/70%RH | | | | | |
| Standards compliance | Safety standards | Compliance to UL 62368 -1, TUV EN62368-1, UL 61347-1, TUV EN 61347-1 | | | | | |
| | EMC emission | Compliance to EN 55032, EN 55015 (CISPR22) Class A, GB9254 Class A, EN 55014, EN 61000-3-2, 3 | | | | | |
| | EMC immunity | Compliance to EN 61000-4-2, 3, 4, 5, 6, 8, 11, EN 55024, EN 61000-6-1 | | | | | |
| Others | Dimension | 99*97*30 mm (L*W*H) | | | | | |
| | Weight | 0.25kg/72pcs/20kg/0.035m³/1.23CUFT | | | | | |
| | MTBF | ≥ 660K hrs min. MIL-HDBK-217F (25°C) | | | | | |

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

7. The power supply is considered as 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.

Unit:mm

| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------------|---------|--------------|
| 1 | AC/N | 4 | DC OUTPUT -V |
| 2 | AC/L | 5 | DC OUTPUT +V |
| 3 | FG $\frac{1}{2}$ | | |

