

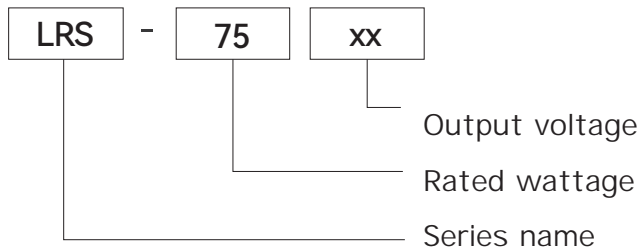
LRS-75

- product category : 75W single output power supply
- version No : ZTAO3.0
- release date : May 1st, 2025

Description

International full-range AC input, no-load power consumption <0.7W, small size 1U low, protection type: short circuit/overload/overcurrent protection, natural air cooling, power start LED indicator light, 100% full-load burn-in test, 3-year warranty.

Model Encoding



Features

- International full-range AC input,
- no-load power consumption <0.7W small size 1U low
- protection type: short circuit/overload/overvoltage protection,
- air cooling
- power start LED indicator light
- 100% full-load burn-in test
- 3-year warranty.
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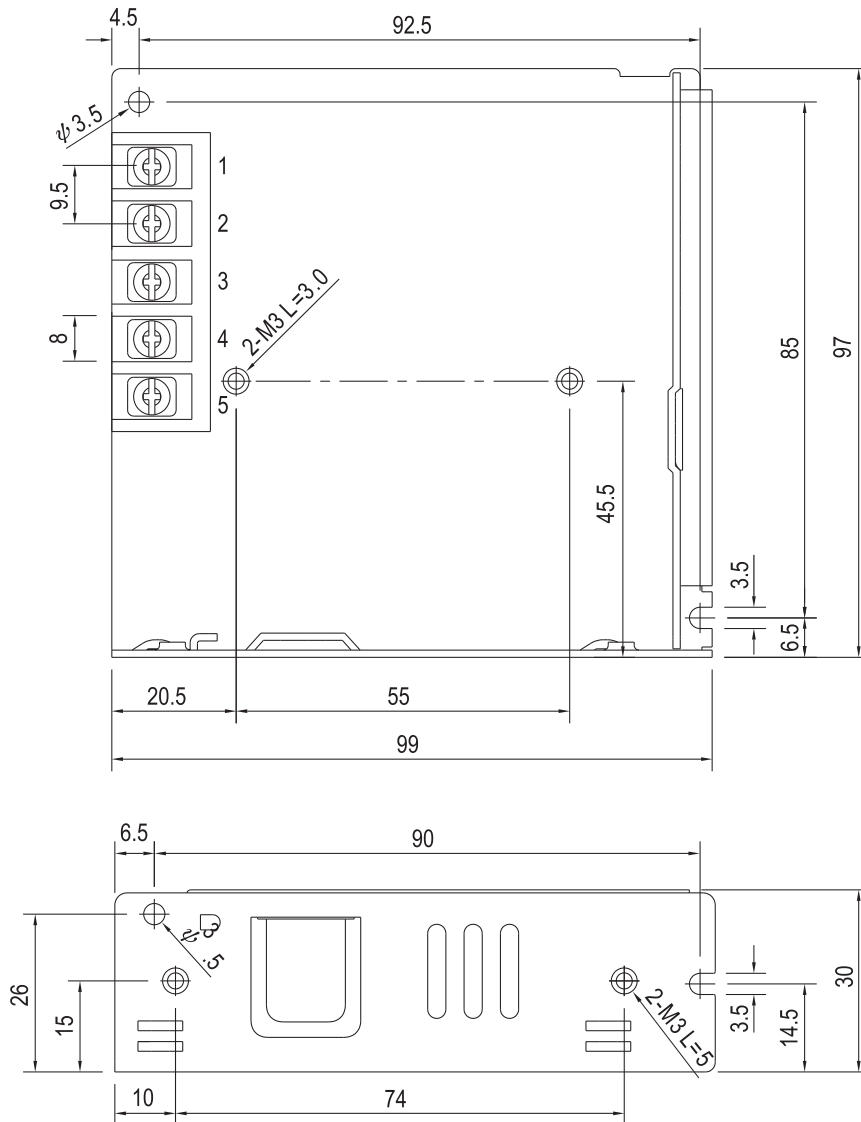
Application

Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (excluding information technology equipment)

Model 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.) | 100mVp-p | 120mVp-p | 120mVp-p | 150mVp-p | 200mVp-p | 200mVp-p |
| | Vol tage ADJ. Range | 4.5~5.5V | 10.2~13.8V | 13.5~16.5V | 21.6~26.4V | 32.4~39.6V | 43.2~52.8V |
| | Voltage Tolerance | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% |
| | Line Regulation | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | Load Regulation | ±0.5% | ±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 | 60mS/230VAC; 12mS/115VAC at full load | | | | | | |
| Input | Voltage Range | 90~264VAC | | 127~370VDC | | | |
| | Frequency Range | 50~60HZ | | | | | |
| | Efficiency | 82% | 85% | 86% | 88% | 89% | 89% |
| | AC Current | 1.4A/115VAC | | 0.85A/230VAC | | | |
| | Inrush Current | < 1mA/240VAC | | | | | |
| Protection | Overload | 125~150% rated output power Hiccup protection, Recovers automatically after fault condition is removed | | | | | |
| | Over Voltage | 5.9~7.3V | 13.8~16.2V | 18.7~21.7V | 28.8~33.6V | 41.4~48.6V | 55.2~64.8V |
| Environment | Working Temp. | -20°C ~+65°C | | | | | |
| | Working Humidity | 20~90%RH non-condensing | | | | | |
| | Storage Temp. | -40~+80°C | | | | | |
| | Humidity | 10~95%RH, non-condensing | | | | | |
| | Vibration | 10~500HZ, 5G 10 min/1cycle,period for 60min, each along X、Y、Z axes | | | | | |
| Safety | Withstand Voltage | I/P-O/P:1.5KVAC; I / P - F G :1.5KVAC; O / P - F G :500VAC | | | | | |
| | Isolation Resistance | I/P-O/P I/P-FG O/P-FG:100 Ohms/500VDC/25°C /70%RH | | | | | |
| Other | Dimension | 99*97*30mm (L*W*H) | | | | | |
| | Packing | 0.2kg/pcs | | | | | |
| Note | <p>1. All parameters Not specially mentioned are measured at 230VAC input,rated load and 25°C 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)</p> | | | | | | |

Mechanical Specification and Installation (mm)



Terminal Pin No. Assignment

| Pin | Pin Ass | Pin | Pin Ass |
|-----|---------|-----|--------------|
| 1 | AC/L | 4 | DC OUTPUT -V |
| 2 | AC/N | 5 | DC OUTPUT +V |
| 3 | FG | | |

| Pin | Function | |
|-----|-------------|---|
| L | AC LINE | screw: M4*9.5 twisting force: 22Kgf.cn(2.2N.m) |
| N | AC NETURAL | |
| ⊖ | EARTH | |
| -Vo | DC output - | 螺丝: M4*9.5 扭力: 22Kgf.cn (2.2N.m) |
| +Vo | DC output + | |
| | | |
| | | |

8-M4 客户系统安装孔

安装螺丝: M4

安装扭力: 8Kgf.cn (0.8N.m)

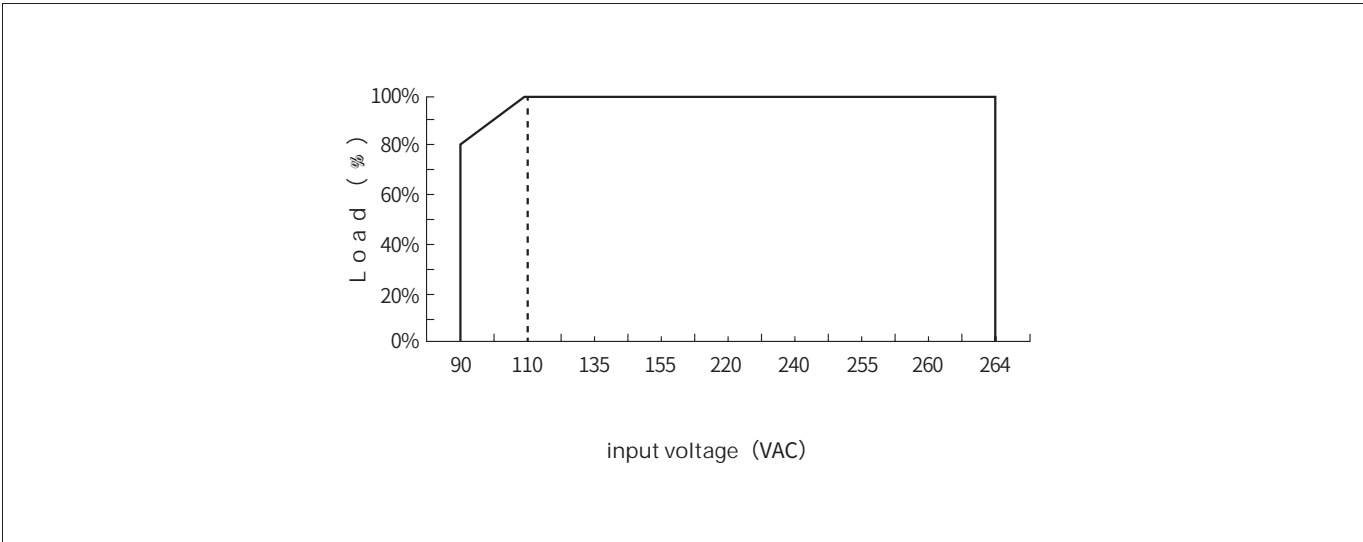
螺丝伸入机壳不大于 3mm

备注:

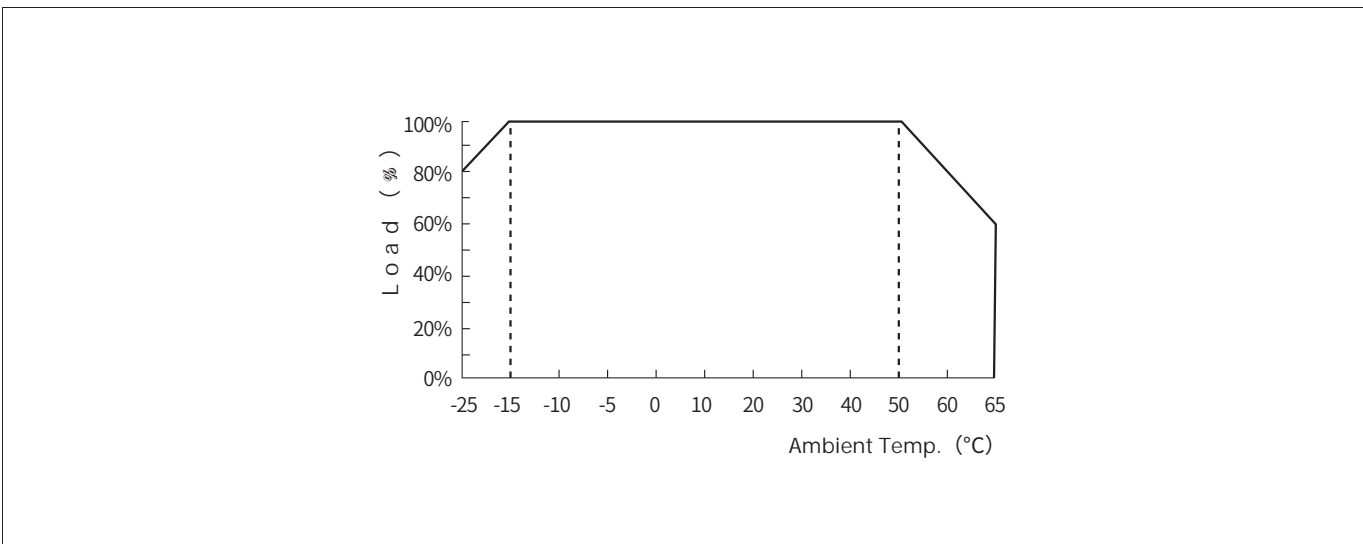
单位: mm[inch]; 未标注公差为 ±0.5[±0.020]

characteristic curve

Input voltage VS Output load



AMBIENT TEMPERATURE VS Output Load



Noted:

- 1.If you need to know more detailed test data when applying, please contact our technical support to obtain the application notes of the corresponding product.
- 2.This product is suitable for use in a natural air convection environment. If it is to be used in a closed environment, please contact our technical support personne