

LRS-50

Enclosed power supply: LRS-50-3.3,
LRS-50-5, LRS-50-12, LRS-50-15, LRS-
50-24, LRS-50-36, LRS-50-48



- Universal AC input / Full range
- Withstand 300VAC surge input for 5 second
- No load power consumption < 0.2W
- 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/EN 60335-1 (PD3) and IEC/EN61558-1, -2-16 for household appliances
- Operating altitude up to 5000 meters (Note.8)
- 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

Full product description

LRS-50 series is a 50W 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 3.3V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of LRS-50 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 0.2W), it allows the end system to easily meet the worldwide energy requirement. LRS-50 has the complete protection functions and 5G anti-vibration capability; it is complied with the international safety regulations such as TUV EN62368-1, EN60335-1, EN61558-1/-2-16, UL62368-1 and GB4943. LRS-50 series serves as a high price-to-performance power supply solution for various

industrial applications.

Available models:

- 3.3V: LRS-50-3.3
- 5V: LRS-50-5
- 12V: LRS-50-12
- 15V: LRS-50-15
- 24V: LRS-50-24
- 36V: LRS-50-36
- 48V: LRS-50-48

Technical Specification

LRS-50: 33-52.8W [DETAILS](#)

Model	Output	Tolerance	Ripple & noise	Efficiency	Dimension
LRS-50-3.3	3.3V, 0~10A	+/-3%	80mV	78%	99x82x30mm
LRS-50-5	5V, 0~10A	+/-2%	80mV	83%	99x82x30mm
LRS-50-12	12V, 0~4.2A	+/-1%	120mV	87%	99x82x30mm
LRS-50-15	15V, 0~3.4A	+/-1%	120mV	88%	99x82x30mm
LRS-50-24	24V, 0~2.2A	+/-1%	150mV	88%	99x82x30mm
LRS-50-36	36V, 0~1.45A	+/-1%	200mV	89%	99x82x30mm
LRS-50-48	48V, 0~1.1A	+/-1%	200mV	90%	99x82x30mm

Models

Symbol	Description
LRS-50-3.3	switching power supply 33W 3.3V 10A

Symbol	Description
LRS-50-5	switching power supply 50W 5V 10A
LRS-50-12	switching power supply 50W 12V 4.2A
LRS-50-15	switching power supply 50W 15V 3.4A
LRS-50-24	switching power supply 50W 24V 2.2A
LRS-50-36	switching power supply 50W 36V 1.45A
LRS-50-48	switching power supply 50W 48V 1.1A