ENCLOSED AC-DC POWER SUPPLY

LRS-120 Series

120 W series | Single-output switching power supply

Output options: 5, 12, 15, 24, 48 V DC



01 Output ratings

Model	LRS-120-5	LRS-120-12	LRS-120-15	LRS-120-24	LRS-120-48
DC output voltage	5 V	12 V	15 V	24 V	48 V
Output current range	0-24 A	0-10 A	0-8 A	0-5 A	0-2.5 A
Efficiency	86%	86%	88%	88%	90%
Ripple and noise	120 mV p-p	120 mV p-p	120 mV p-p	150 mV p-p	200 mV p-p
Line regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
DC voltage adjustment	±10%	±10%	±10%	±10%	±10%

02 Input, protection and insulation

Input voltage	85-264 V AC, 47-63 Hz; 120-373 V DC
Inrush current	50 A at 230 V AC (cold start)
Overload protection	110-150%: output shuts off; automatic recovery.
Other protection	Overcurrent protection / Short-circuit protection
Setup / rise time	230 V AC: 500 / 30 ms; 115 V AC: 500 / 30 ms. Hold-up time not specified.
Withstand voltage	Input-output: 1.5 kV; input-FG: 1.5 kV; output-FG: 0.5 kV (1 min).
Insulation resistance	100 MOhm at 500 V DC, input-output / input-FG / output-FG; 25 °C, 70% RH.

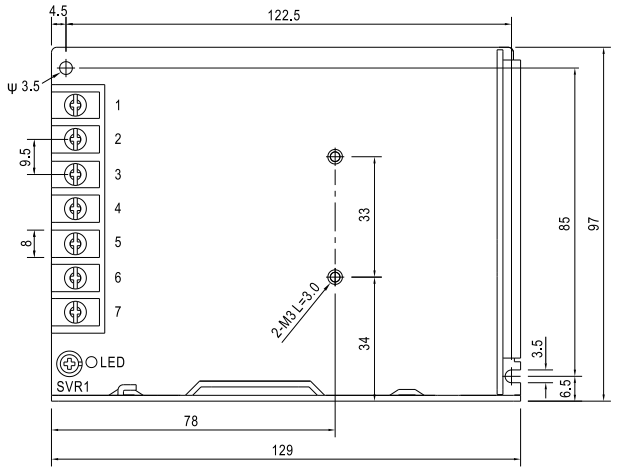
03 Operating and mechanical data

Operating temperature	-20 to +70 °C; full load is not specified across this range.
Dimensions (L × W × H)	129 × 97 × 30 mm
Unit weight	0.34 kg
Packing	42.5×32.5×19.5 cm; 45 pcs; 16 kg

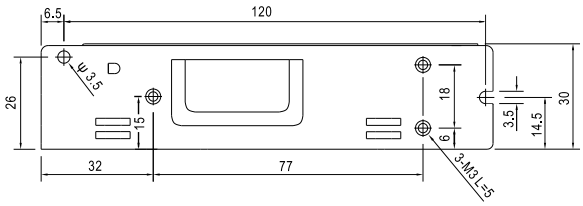
04 Mechanical outline

Dimensions in millimetres

Terminal layout and mounting holes



Side mounting holes



Overall length × width × height

129 × 97 × 30 mm

Terminal assignments

AC input	Protective earth	DC output -V	DC output +V
Pins 1, 2	Pin 3	Pins 4, 5	Pins 6, 7

05 Mounting reference

Body length	129 mm
Body width	97 mm
Body height	30 mm

06 Operating limits

5 V is a catalogue option; no 5 V load curve is published in this sheet.

The operating temperature range is -20 to +70 °C. No model-specific derating curve is included. Confirm allowable load at the intended input voltage and ambient temperature. The stated range is not a full-load rating.