ENCLOSED AC-DC POWER SUPPLY

LRS-150 Series

150 W series | Single-output switching power supply

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



01 Output ratings

Model	LRS-150-5	LRS-150-12	LRS-150-15	LRS-150-24	LRS-150-48
DC output voltage	5 V	12 V	15 V	24 V	48 V
Output current range	0-30 A	0-12.5 A	0-10 A	0-6.5 A	0-3.3 A
Efficiency	87.5%	87.5%	89%	89%	90%
Ripple and noise	150 mV p-p	150 mV p-p	150 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	60 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.

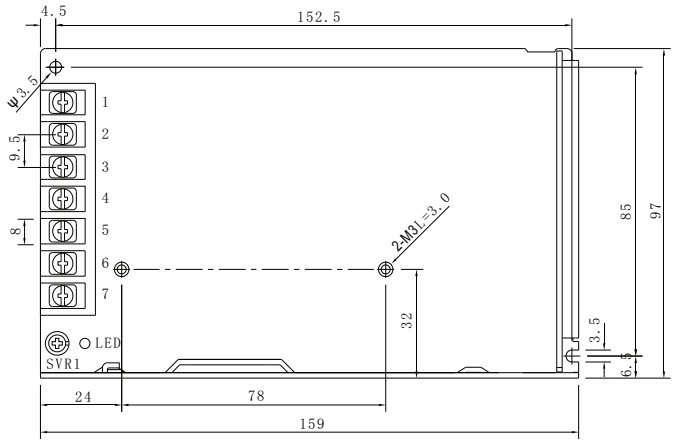
03 Operating and mechanical data

Operating temperature	-20 to +70 °C; see derating conditions on page 2.
Dimensions (L × W × H)	159 × 97 × 30 mm
Unit weight	0.45 kg
Packing	42.5×34×19.5 cm; 40 pcs; 17 kg

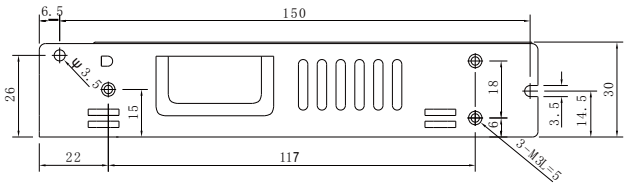
04 Mechanical outline

Dimensions in millimetres

Terminal layout and mounting holes



Side mounting holes



Overall length × width × height

159 × 97 × 30 mm

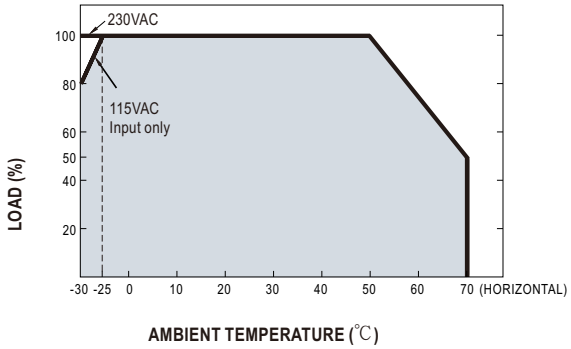
Terminal assignments

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

05 Load derating

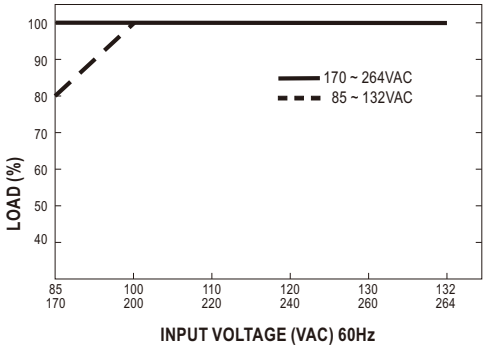
Ambient temperature

Derating Curve



AC input voltage

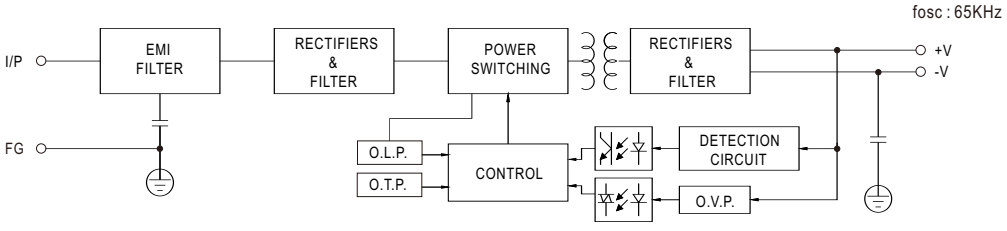
Static Characteristics



The curves distinguish input conditions, not 5 V output current. Observe the plotted input bands. Use within -20 to +70 °C and the input limits on page 1. Follow the plotted frequency and mounting conditions.

06 Functional block diagram

Block Diagram



These model-matched reference diagrams do not establish new output ratings, protection limits, test results, certifications or warranty coverage.