DR-45

Single-output DIN rail power supply

78 × 93 × 56 mm / 45 W class



Pictured sample: DR-45-12

Output selection

Model	DR-45-5	DR-45-12	DR-45-15	DR-45-24
DC output	5 V	12 V	15 V	24 V
DC current range	0–5 A	0–3.5 A	0–2.8 A	0–2 A
Efficiency	72%	77%	77%	80%
Ripple and noise	80 mV p-p	120 mV p-p	120 mV p-p	150 mV p-p
Line regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load regulation	±1%	±0.5%	±0.5%	±0.5%
DC voltage adjustment	±10%	±10%	±10%	±10%

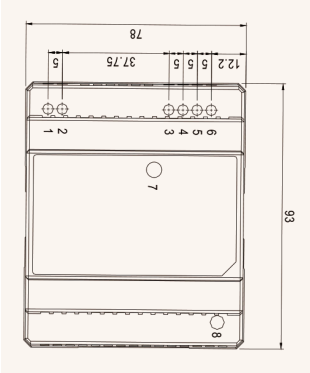
Input and operating specifications

Parameter	Specification
Input voltage	85–264 VAC / 120–370 VDC
AC input frequency	47–63 Hz
Cold-start inrush	28 A at 115 VAC; 56 A at 230 VAC
Overload protection	105–150%; output cuts off and recovers automatically.
Overvoltage protection	115–135%; output shuts down. Cycle input power to recover.
Setup / rise / hold-up	800 / 60 / 50 ms at 230 VAC, full load
Withstand voltage (1 min)	Input/output: 1.5 kV; input/FG: 1.5 kV; output/FG: 0.5 kV.
Insulation resistance	100 MΩ at 500 VDC: input/output, input/FG and output/FG.
Working temperature	−10 °C to +50 °C

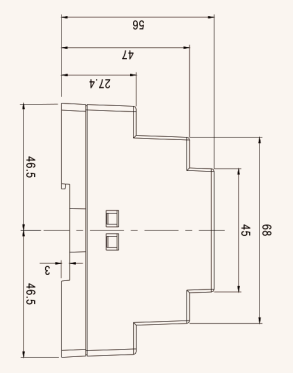
Mechanical dimensions

78 × 93 × 56 mm / drawing dimensions in millimetres

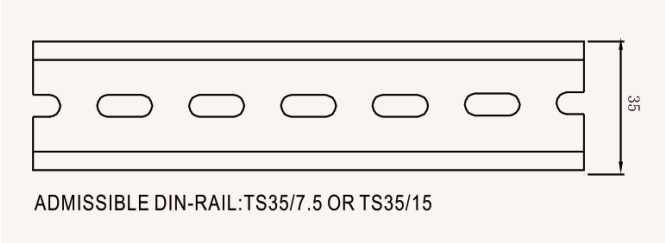
Original dimensioned views from the DR-45 manufacturer sheet.



Terminal face



Side profile



Rail profile

Mechanical data

Body: 78 × 93 × 56 mm

Unit weight: 0.27 kg

Packing:

43 × 32 × 21.5 cm / 45 pcs / 12.5 kg

Terminals and installation

1: AC/N; 2: AC/L; 3 and 4: +V; 5 and 6: −V. Positions 7 (LED) and 8 (+V ADJ.) are an indicator and adjustment, not power terminals.

Use TS35/7.5 or TS35/15 rail.

Isolate the input before mounting or wiring. Use the terminal markings on the unit.

Allow room for conductors, terminal access and heat dissipation.

The working temperature range is not a full-load derating curve.