

RUGGEDIZED SERIES • INDUSTRIAL DIN-RAIL POWER SUPPLY

AL-IDR240-48

48V / 240W Single Output Industrial DIN Rail Power Supply

The Antek Labs AL-IDR240-48 is an industrial DIN-rail switching power supply for 35 mm rail mounting. It accepts universal 90–264 V AC input and delivers a tightly regulated DC output with constant-current overload, over-voltage and short-circuit protection, metal-cased for heat dissipation and rated for wide-temperature industrial operation.

KEY FEATURES

- Universal 90–264 V AC input; regulated DC output for industrial DIN-rail systems.
- Constant-current overload protection with over-voltage and short-circuit protection.
- High conversion efficiency with metal enclosure for passive heat dissipation.
- Wide-temperature operation; 100% full-load burn-in tested; EMC compliant.
- 35 mm TS-35 DIN-rail mounting for control cabinets and enclosures.

OUTPUT

Rated output voltage	48VDC
Rated output current	5A
Rated output power	240W
Peak output power	360 W (Sustained for 10 seconds at 220 VAC)
Peak output current	7.5A (Sustained for 10 seconds at 220 VAC)
Ripple & noise	<=100 mV p-p
Line / load regulation	±0.5% / ±1%

INPUT

AC input range	90-264VAC
Frequency	47Hz-63Hz
Efficiency	>90.0% @115VAC, >91.0% @ 230VAC
Harmonics	EN 61000-3-2 Class D

PROTECTION

Over-current	6-7.5A
Short-circuit	Constant-current / hiccup, auto-recovery

PHYSICAL & ENVIRONMENTAL

Dimensions (W/H/D)	131*121*45mm
Housing	Metal case, fanless (convection cooled)
Mounting	35 mm DIN rail (TS-35)
Operating temperature	-40°C~+70°C, 20%-95%RH non-condensing

Storage temperature	-40 C to +85 C
Safety / EMC	EN 62368-1; EN 55022/55024 Class B; EN 61000-4 immunity Level 3-4; FCC Part 15

COMPLIANCE & WARRANTY

Regulatory	CE · CE/LVD (EN 62368-1) · FCC Part 15 Class A · RoHS
Warranty	5 years, lifetime support

ORDERING INFORMATION

AL-IDR240-48 48V / 240W Single Output Industrial DIN Rail Power Supply.

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