

RUGGEDIZED SERIES • INDUSTRIAL DIN-RAIL POWER SUPPLY

AL-IDR10-24

24V / 10W Single Output Industrial DIN Rail Power Supply

The Antek Labs AL-IDR10-24 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	24VDC
Rated output current	1.0A
Rated output power	24W
Peak output power	36 W (Sustained for 10 seconds at 220 VAC)
Peak output current	1.5A (Sustained for 10 seconds at 220 VAC)
Ripple & noise	Peak-to-peak value $\leq 100\text{mV}$
Line / load regulation	$\pm 0.5\%$ / $\pm 1\%$

INPUT

AC input range	90-264VAC
Frequency	47Hz-63Hz
Efficiency	$>85.0\%$ @ 115VAC, $>84.0\%$ @ 230VAC
Inrush current	$<60\text{A}$ @ 230VAC
Power factor	$\text{PF} > 0.6$ (at full load)
Harmonics	EN 61000-3-2 Class D

PROTECTION

Short-circuit	Constant-current / hiccup, auto-recovery
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PHYSICAL & ENVIRONMENTAL

Dimensions (W/H/D)	103*82.5*23mm
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-IDR10-24 24V / 10W Single Output Industrial DIN Rail Power Supply.

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