

RUGGEDIZED SERIES • INDUSTRIAL DIN-RAIL POWER SUPPLY

AL-IDR60-24

24V / 60W Single Output Industrial DIN Rail Power Supply

The Antek Labs AL-IDR60-24 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	2.5A
Rated output power	60W
Peak output power	90W (sustainable time 10S/220VAC)
Peak output current	3.75A (sustainable time 10S/220VAC)
Output adjustment range	22.5-28VDC
Ripple & noise	Peak-to-peak value $\leq 100\text{mV}$
Line / load regulation	$\pm 0.5\%$ / $\pm 1\%$
Hold-up time	$>20\text{ms}$ @ 115VAC, $>115\text{ms}$ @ 230VAC (100% load)

INPUT

AC input range	90-264VAC
Frequency	47Hz-63Hz
Efficiency	$>85.0\%$ @ 115VAC, $>89.0\%$ @ 230VAC
Inrush current	$<20\text{A}$ @ 115VAC, $<20\text{A}$ @ 230VAC
Power factor	$\text{PF} > 0.6$ (at full load)
Harmonics	EN 61000-3-2 Class D

PROTECTION

Over-power	78-97W
Over-voltage	30-36V
Over-current	3-3.75A

Short-circuit	Constant-current / hiccup, auto-recovery
Dielectric strength	Input—Output: 3KVAC/10mA, Input--Case:1.5KVAC/10mA
Leakage current	Input to ground ≤3.5mA, Input to output ≤0.25mA
Insulation resistance	Input-Output: 10M ohms

PHYSICAL & ENVIRONMENTAL

Dimensions (W/H/D)	93*41*102.5mm
Housing	Metal case, fanless (convection cooled)
Mounting	35 mm DIN rail (TS-35)
Operating temperature	-40°C-70°C, 20%-95%RH No condensing
Storage temperature	-40 C to +85 C
Altitude	2000m
Safety / EMC	GB4943/EN62368-1; 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-IDR60-24 24V / 60W Single Output Industrial DIN Rail Power Supply.

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