

**Aumictech**

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Data Sheet

August 15, 2026

IDEC

IDEC PS5R-SD24 Standard Series Switching Power Supply

IDEC DC Power Supplies. Voltage: ** 24VDC, Current: ** 1.5A, Current: ** 1.2A max (100VAC).



MODEL

IDEC PS5R-SD24

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PS5R-SD24

LISTING

<https://aumictechlabs.com/products/ps5r-sd24-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The IDEC PS5R-SD24 is a 36W switching power supply delivering stable 24VDC output for industrial control and automation systems. This standard-series unit accepts 100-240VAC input (50/60Hz), provides 1.5A continuous output current, and operates across -10°C to +50°C. DIN rail mounting and dual screw terminals enable rapid panel integration. Built-in protection - overcurrent (Hiccup/constant current mode), overvoltage (Zener/crowbar), and short-circuit rated for continuous fault - safeguards downstream circuits. Isolation ratings of 3000VAC (input-output), 1500VAC (input-enclosure), and 500VAC (output-enclosure) meet industrial safety requirements. Natural convection cooling eliminates forced ventilation needs in standard environments.

Technical Specifications Output Voltage: 24VDC Output Current: 1.5A Output Power: 36W Input Voltage Range: 100-240VAC, 50/60Hz Input Current: 1.2A max (100VAC), 0.6A max (240VAC) Efficiency: >80% typical Operating Temperature: -10°C to +50°C Storage Temperature: -25°C to +60°C Humidity: 30% to 90% RH (non-condensing) Inrush Current: <30A at 230VAC, cold start

Leakage Current: <1mA at 240VAC Ripple and Noise: <100mVp-p Isolation Voltage: 3000VAC (input-output), 1500VAC (input-enclosure), 500VAC (output-enclosure) Weight: Typically <0.5 kg

Key Features Screw terminal connections (input and output) for secure industrial wiring DIN rail mountable for standardized panel integration Overcurrent protection with Hiccup or constant current mode Overvoltage protection via Zener clamp or crowbar circuit Short-circuit rated for continuous fault withstand Natural convection cooling - no forced ventilation required Compact form factor suitable for space-constrained enclosures

Typical Applications Industrial control system power backup Automation equipment and PLC auxiliary supplies Sensor and field device power Machine vision and motion control subsystems

Compatibility & Integration Meets common industrial safety and EMC standards for the USA market. Specific certifications (UL, cUL, CE) are marked on the product label.

PS5RSD24 Characteristics / Specifications

PARAMETER	VALUE
Model	PS5R-SD24
Instrument Type	DIN-rail switching power supply
Output Voltage	24 V DC
Output Current	2.5 A
Output Power	60 W
Input Voltage Ac	85 to 264 VAC
Input Voltage Dc	100 to 370 VDC
Input Current 100 V	1.7 A maximum
Input Current 200 V	1.0 A maximum
Internal Fuse	3.15 A
Inrush	50 A maximum at 200 VAC cold start
Leakage 132 V	0.38 mA maximum
Leakage 264 V	0.75 mA maximum
Efficiency	83 percent typical at 24 V
Voltage Adjust	plus or minus 10 percent
Hold Up	20 ms minimum at rated input and output
Starting Time	200 ms maximum
Rise Time	100 ms maximum
Line Regulation	0.4 percent maximum
Load Regulation	1.5 percent maximum
Ripple	2 percent peak-to-peak maximum including noise
Operating Temperature	minus 10 C to 60 C (full load to 55 C on 60 W curve)
Width	1.42 in
Length	108 mm
Height	3.74 in

PARAMETER	VALUE
Manufacturer	IDEC
Literature	IDEC PS5R Slim Line series datasheet

General Specifications & Supplementary Characteristics

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Operating temperature	minus 10 C to 60 C (full load to 55 C on 60 W curve)
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Manufacturer	IDEC
Literature	IDEC PS5R Slim Line series datasheet Notes From IDEC PS5R Slim Line series datasheet PS5R-SD 60 W column (24 V 2.5 A, 85-264 VAC, 1.7/1.0 A, 83 percent, 20 ms hold-up, 2 percent ripple, minus 10 to 60 C, 108 mm x 1.42 in). PFC is stated for 60 W to 240 W on that sheet.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.