



RECOM

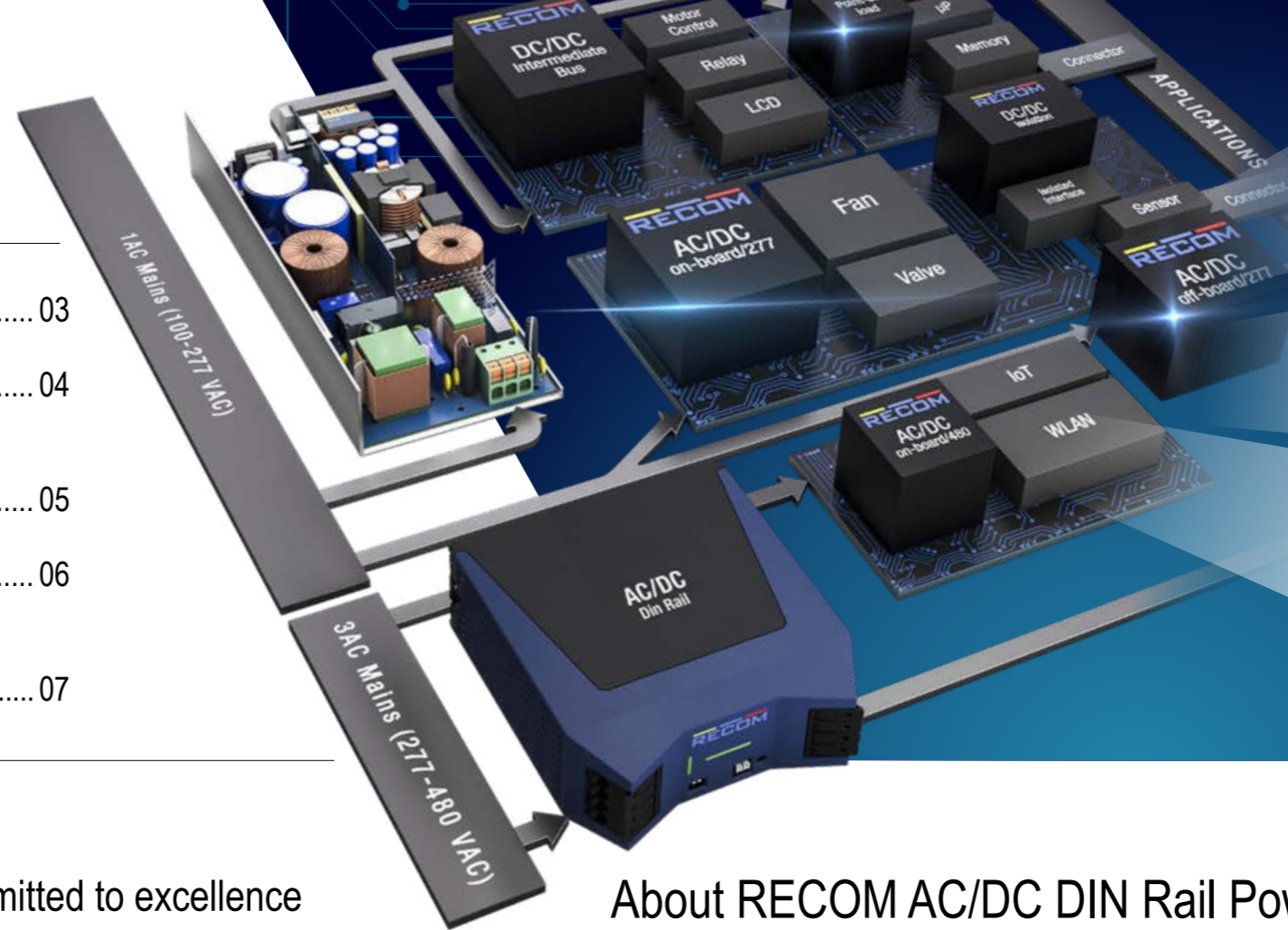
AC/DC DIN Rail Power Supplies

V1.0








The RECOM family of industrial DIN rail power supplies, e-Fuses, and Redundancy Diodes is specifically designed to meet the needs of today's most demanding industrial applications

Content

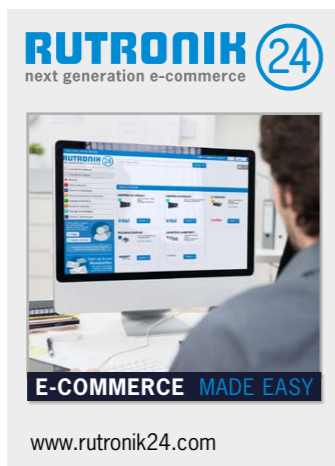
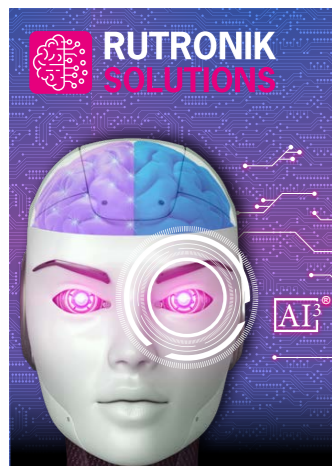
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Our Product Portfolio

-  Semiconductors
-  Boards & Systems
-  Passive Components
-  Storage Technologies
-  Electromechanical Components
-  Wireless Technologies
-  Displays & Monitors

Our Initiatives



Committed to excellence

Consult – Know-how. Built-in.

The Technical Competence from RUTRONIK
Worldwide and individual consulting on the spot by competent sales staff, application engineers & product specialists.

Components – Variety. Built-in.

The Product Portfolio from RUTRONIK
Wide product range of semiconductors, passive and electromechanical components, displays & monitors, boards & systems, storage and wireless technologies for optimum coverage of your needs.

Logistics – Reliability. Built-in.

The Delivery Service from RUTRONIK
Innovative and flexible solutions: from supply chain management to individual logistics systems.

Quality – Security. Built-in.

Quality without Compromise from RUTRONIK
The integrated management system (IMS) encompasses quality control, information security, environmental protection, occupational health and safety.

About RECOM AC/DC DIN Rail Power Supplies

RECOM Power manufactures a full range of standard and custom DC/DC and AC/DC converters, including switching regulators and LED drivers, from sub-1W to tens of kW. Within its headquarters in Austria, RECOM has a state-of-the-art logistics R&D center and laboratory where its high quality and innovative products are developed. RECOM's manufacturing and logistics sites are ISO 9001 or automotive IATF 16949 certified, ensuring the highest level of quality control of their converters for IoT, Industry 4.0, energy technology, medical and transportation. The RECOM name has become synonymous with high quality, integrity, innovation, and excellent customer service in the electronics industry.

RECOM Mission

Simplify and accelerate the development process of power supplies for new applications in a work environment, which ensures individual professional development.

RECOM Vision

To provide power supplies that become an essential and efficient part of a wide range of power management applications, thereby further enhancing existing and future technologies.

AC/DC DIN Rail Power Supplies

As smarter control systems, robotics, and automated assembly lines drive industrial productivity to new levels. A constant, reliable flow of power is critical to smooth operation. Artificial intelligence (AI), machine learning (ML), and the Industrial Internet of Things (IIoT) are transforming operations, but they are also driving up power requirements. Modern machines pack more functionality into each unit, making high-performance power solutions as important as their size and ease of use.

It takes more than just power:

RECOM wanted to make it easier for you with the DIN rail-mounted power supply units (PSUs) that support breakthrough applications. To power the future of industry, only the best will do.

A better fit for DIN Rail-Mounted Industrial Power Configurations

- Recommended separation distances to other equipment are 40mm above and 20mm below
- No separation distance required on the left or right sides
- Connect cables with simple, tool-less push-in terminals

TOOL-LESS INSTALLATION AND PUSH-IN CABLING

Easy to install and dismount for maintenance or reconfiguration of rail components, and easy to connect and disconnect cables.

LONG LIFESPAN

With a design lifetime of 80,000 hours, components of the RACPRO1 family can meet the durability of industrial power supply applications.

LIGHTWEIGHT AND COMPACT

Specially designed to fit in tightly packed enclosures without weighing down support rails. The 960 W model is only 80 mm in wide and weighs only 1140 g.



RACPRO1 Series – AC/DC E-FUSES

Product picture	Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Case / Dimensions (H x W x D)	Certifications	Other Features
	RACPRO1-4SP/24V/5A	120 per Channel	22-28	24	-	61.9 x 72 x 110.2 mm	EN/IEC/UL62368-1EN/IEC/UL61010-1EN/IEC/UL/CSA61010-2-201	<ul style="list-style-type: none"> ■ NEC Class 2 option adjustable by switch ■ Start against highest capacitive loads ■ Highest life expectancy 80 kh / 40 °C ■ Intuitive user handling UVLO
	RACPRO1-4SP/24V/10A	240 per Channel	22-28	24	-	61.9 x 72 x 111 mm	EN/IEC/UL62368-1EN/IEC/UL61010-1EN/IEC/UL/CSA61010-2-201	<ul style="list-style-type: none"> ■ Start against highest capacitive loads ■ Highest life expectancy 80 kh / 40 °C ■ Intuitive user interface UVLO

REDIIN Series – AC/DC CONVERTERS for 1AC DIN-RAIL POWER SUPPLIES

Product picture	Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Case / Dimensions (H x W x D)	Certifications	Other Features
	REDIIN120	120	90-264	12, 24, 48	3 kVAC / 1 min	123.6 x 30.0 x 116.8 mm	EN/IEC/UL62368-1 EN/IEC/UL61010-1 EN/IEC/UL/CSA61010-2-201	<ul style="list-style-type: none"> ■ Operating temp. range: 30°C to +70°C ■ Cold start -40°C ■ Width only 30 mm, low weight 450 g ■ No load power consumption: < 0.21 W
	REDIIN240	240	90-264	24, 48	3 kVAC / 1 min	123.6 x 40.0 x 116.8 mm	EN/IEC/UL62368-1 EN/IEC/UL61010-1 EN/IEC/UL/CSA61010-2-201	<ul style="list-style-type: none"> ■ Operating temp. range: -30°C to +70°C ■ Cold start -40°C ■ Width only 40 mm, low weight 620 g ■ No load power consumption: < 0.3W
	REDIIN480	480	90-264	24, 48	3 kVAC / 1 min	123.6 x 56.0 x 116.8 mm	EN/IEC/UL62368-1 EN/IEC/UL61010-1 EN/IEC/UL/CSA61010-2-201	<ul style="list-style-type: none"> ■ Operating temp. range: -30°C to +70°C cold start -40°C, active PFC >0.93 width only 56 mm, low weight 870 g no load power consumption <0.75W

RACPRO1-T Series – AC/DC CONVERTERS for 3AC DIN-RAIL POWER SUPPLIES

Product picture	Series	Power (W)	Vin (VAC)	Vout (VDC)	Isolation	Case / Dimensions (H x W x D)	Certifications	Other Features
	RACPRO1-T240	240	3AC 320 V 576 V	24	4.2 kVDC	135.0 x 43.0 x 140.4 mm	EN/IEC/UL62368-1 EN/IEC/UL61010-1 EN/IEC/UL/CSA61010-2-201	<ul style="list-style-type: none"> ■ Reduced no-load power consumption ■ Return voltage immunity > 35 V ■ Adjustable output voltage and DC OK signal ■ Width only 43 mm, light weight 531 g
	RACPRO1-T480	480	3AC 320 V 576 V	24, 48	4.2 kVDC	135.0 x 52.0 x 155.7 mm	EN/IEC/UL62368-1 EN/IEC/UL61010-1 EN/IEC/UL/CSA61010-2-201	<ul style="list-style-type: none"> ■ Reduced no-load power consumption ■ Return voltage immunity > 35 V ■ Adjustable output voltage and DC OK signal ■ Width only 52 mm, light weight 768 g
	RACPRO1-T960	960	3AC 320 V 576 V	24, 48	4.2 kVDC	135.0 x 80.0 mm x 155.7	EN/IEC/UL62368-1 EN/IEC/UL61010-1 EN/IEC/UL/CSA61010-2-201	<ul style="list-style-type: none"> ■ Reduced no-load power consumption ■ Return voltage immunity > 35 V ■ Adjustable output voltage and DC OK signal ■ Width only 80 mm, light weight 1140 g



Where to find RECOM's RACPRO1 Power Supplies



INDUSTRIAL AUTOMATION AND SMART MANUFACTURING

Artificial Intelligence (AI) is increasingly permeating industrial and manufacturing processes. Lean manufacturing, real-time sensors, semi-automated processes, and activities that combine AI and human workers are all part of Industry 4.0, an era that requires state-of-the-art power supplies.



RENEWABLE ENERGY

Renewable energy facilities use innovations such as AI-driven energy optimization, smart grids, and automated control systems to balance energy consumption, storage, and generation from cleaner sources. From turbine safety mechanisms to redundant power systems, RACPRO1 power supplies (PSUs) can handle temporary overloads of up to 15 percent without tripping.



INFRASTRUCTURE, TRAFFIC ENGINEERING, AND SMART CITIES

Urban innovation sectors face increasing energy demands due to the integration of advanced technologies, such as autonomous vehicles, smart street lighting, and connected public transportation systems. These innovations rely on continuous data exchange, real-time analytics, and IoT-driven systems to ensure efficiency and responsiveness. None of this is possible without highly reliable, low-maintenance power supplies that can withstand the rigors of damp and dusty environments.



POWER DISTRIBUTION AND BATTERY STORAGE SYSTEMS

Grid-scale energy storage and distributed energy networks are increasing the demands on battery storage systems and power distribution. Extending the features of the RACPRO1 family of PSUs, RACPRO1-4SP E-Fuses optimize efficiency and safety with selective power to protect each load from overcurrent and deliver power exactly where it is needed. The combination of RACPRO1 PSUs and E-Fuses reduces downtime, improves control, and protects your entire operation from potential power disruptions.



MEASUREMENT AND TESTING EQUIPMENT

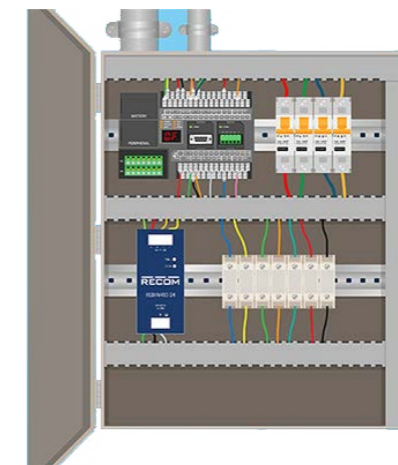
Equipment that detects and analyzes variables under varying conditions requires stable and substantial power to operate accurately. These systems must provide accurate real-time results, often while processing large amounts of data, which places additional power demands on the equipment. RACPRO1 PSUs make it easier for engineers and technicians to operate their equipment safely and reliably.

Addressing Today's Industrial Power Needs

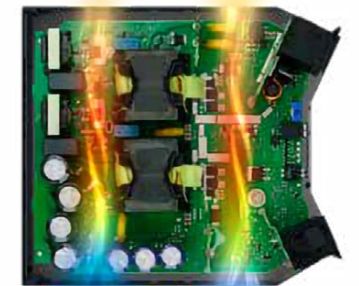
- High reliability to withstand extended mains input surges up to 6kV make RACPRO1 PSUs well-suited for demanding industrial applications while reducing risk of system downtime.
- Decelerating motors or inductors can generate reverse voltage, which can flow back into the power supply and cause hazardous back feeding. To mitigate this risk, RACPRO1 PSUs feature a return voltage immunity greater than 35V at 24V, providing enhanced protection against potential damage and ensuring safer, more reliable operation in demanding industrial environments.
- Maintains high-performance output using only convection cooling. RACPRO1 PSUs do not require any additional cooling components, making them even more reliable in dusty, dirty, humid environments from factory floors to wind farms.
- There's no need to invest in a higher-specified PSU just to handle brief peak requirements. RACPRO1 PSUs' continuous overload capability can provide a power boost of 150% for as long as five seconds to handle heavy loads like system startup, thereby saving space and cost.

DIN Rail Mounting

The simplicity and versatility of the DIN rail system, where components can easily click into place or be unclipped for maintenance upgrades or replacement led to a whole range of different electrical components being manufactured for DIN rail mounting, such as circuit breakers, relays, contactors, terminal blocks, data network components (KNX, DALI, Ethernet), programmable logic controllers (PLCs), and power supplies.



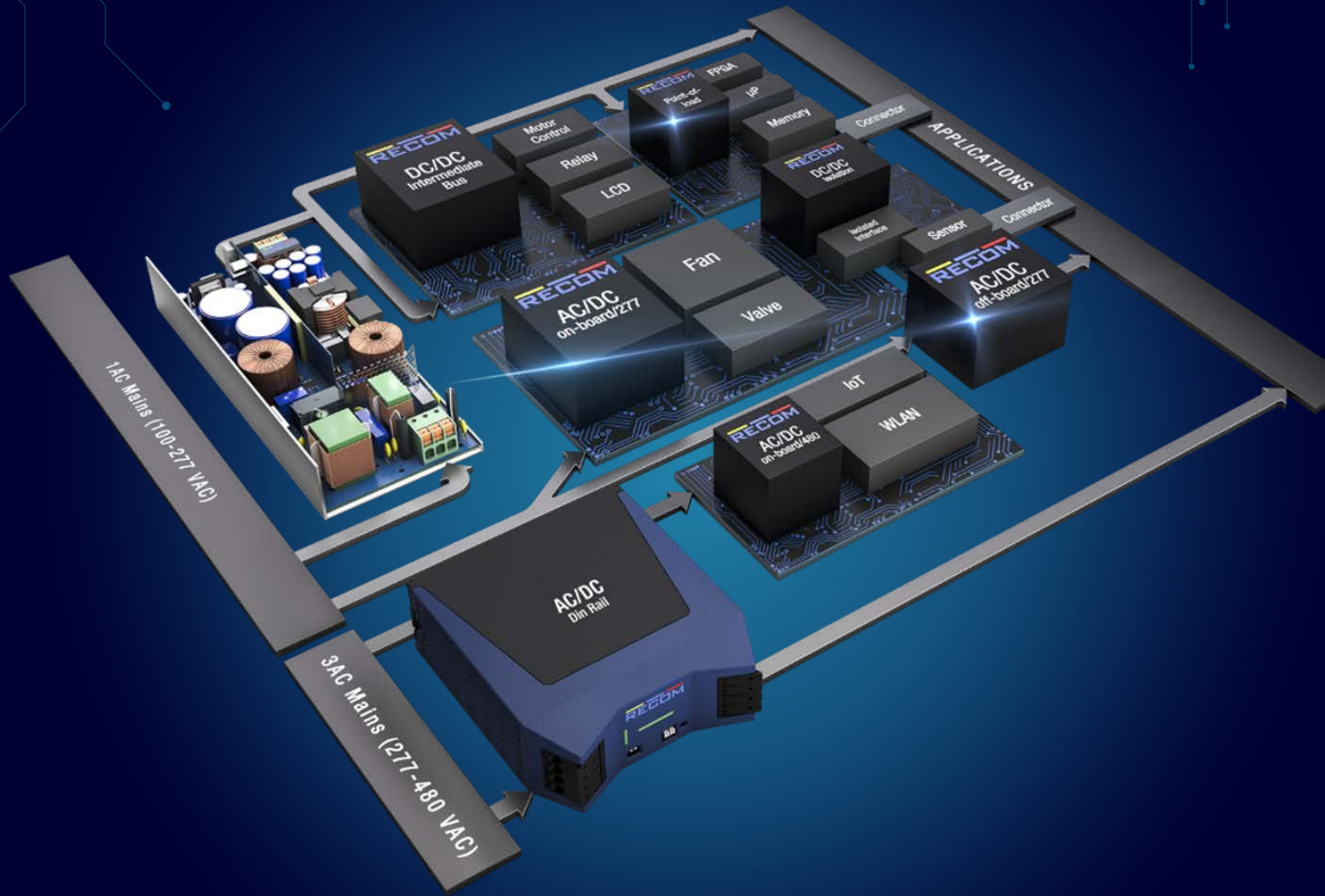
CHIMNEY Effect



The chimney effect occurs where a vertical column of warm air rises creating a natural draught that can significantly lower the internal temperature of hot components.

The clever design of the RECOM RACPRO1 DIN-rail mount power supplies incorporates two separate through flue-channels to take full advantage of the chimney effect to offer 100% power operation at up to 60°C ambient temperature.

POWER SUPPLIES FOR DISTRIBUTED
POWER ARCHITECTURE



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Ralf Kern

Linemanager

ralf.kern@rutronik.com | +49 7231 801 1677

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