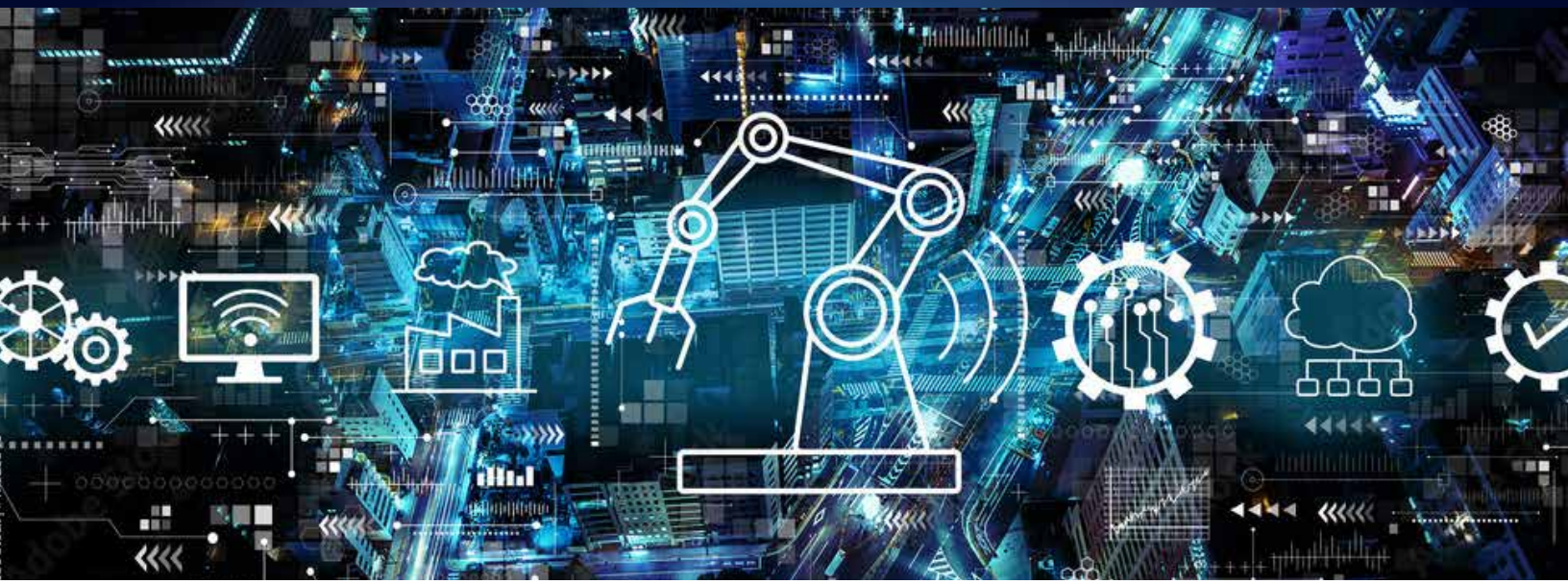
RECOM

INTRODUCING THE RACPRO1 FAMILY

SLIM, HIGH-POWER INDUSTRIAL DIN-RAIL MOUNTED POWER SUPPLIES



As smarter control systems, robotics, and automated assembly lines push industrial productivity to new levels, a steady, reliable flow of power is critical to keep operations running smoothly.

Artificial intelligence (AI), machine learning (ML), and the industrial internet of things (IIoT) are transforming operations but also driving up power requirements. Modern machines pack more functionality into every unit, making high-performance power solutions as important as their size and ease of use. **It takes more than sheer power: We wanted to make it easier for you to work with the DIN rail-mounted power supply units (PSUs) that support these breakthrough technologies.**

To power the future of industry, only the best will do.

TOOL-LESS INSTALLATION AND PUSH-IN CABLING

Easy to mount and dismount for maintenance or the reconfiguration of rail components, and easy to attach and detach cables

LONG LIFESPAN

With a design lifetime of 80,000 hours, members of the RACPRO1 family can satisfy the longevity demands of industrial power supply applications

LIGHTWEIGHT AND COMPACT

Specially engineered to fit in densely packed enclosures without weighing down support rails (the 240W model measures only 43mm in width and weighs only 500g)

RACPRO1 FAMILY: MAINTAIN RELIABILITY IN HIGH-STAKES POWER ENVIRONMENTS LIKE INDUSTRIAL AUTOMATION, RENEWABLE ENERGY, AND SMART CITY INFRASTRUCTURE

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

ADDRESSING TODAY'S INDUSTRIAL POWER NEEDS

- **High reliability to withstand extended mains input surges** up to 6kVAC 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.**

WHERE YOU'LL FIND RECOM'S RACPRO1 PSUs

Whether your power supply equipment is within arm's reach or in a remote location with limited access, RACPRO1 PSUs are ready for any high-power, high-reliability application.

INDUSTRIAL AUTOMATION + SMART MANUFACTURING

Smarter intelligence awakens in industrial facilities every day. Lean manufacturing, real-time sensors, semi-automated processes, and activities that bring AI and human workers together are all part of Industry 4.0, an era that demands state-of-the-art power supplies to provide consistent, reliable energy.

RENEWABLE ENERGY

Renewable energy facilities use innovations like AI-driven energy optimization, smart grids, and automated control systems to balance energy consumption, storage, and generation from cleaner sources. From safety mechanisms on a turbine to redundant power systems, RACPRO1 PSUs can handle temporary overloads without tripping.

INFRASTRUCTURE, TRAFFIC ENGINEERING, AND SMART CITIES

Urban innovation sectors face rising power needs due to the integration of advanced technologies, such as autonomous vehicles, intelligent 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—all impossible without high-reliability, low-maintenance power supply equipment built to last in damp and dusty locales.

POWER DISTRIBUTION AND BATTERY STORAGE SYSTEMS

Grid-scale energy storage and decentralized energy networks are increasing demands in battery storage systems and power distribution. Augmenting 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 precisely where it's needed. The combination of RACPRO1 PSUs and E-Fuses reduces downtime, enhances control, and safeguards your entire operation from potential power disruptions.

MEASUREMENT AND TESTING EQUIPMENT

Equipment that detects and analyzes variables under various operating conditions requires stable and substantial power to function accurately. These systems must deliver precise results in real-time, 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 use their equipment safely and reliably.

TAP INTO RECOM'S GLOBAL MANUFACTURING NETWORK

When it comes to manufacturing timelines, you can rely on RECOM to deliver. With an expansive manufacturing network in Italy, Mainland China, and Taiwan (plus subcontracted facilities in Asia and Europe), supply chain disruptions won't derail your deadlines.

Whether you're looking for a readily available product or exploring a custom solution, RECOM works quickly and efficiently throughout the world.

ONE-STOP SHOP FOR YOUR POWER NEEDS

Engaging multiple vendors can complicate power designs and delay project timelines. Reduce compatibility issues by reducing the list to one.

RECOM manufactures more than 30,000 power supplies, converters, switching regulators, and LED drivers. You'll have access to everything you need in one place.

RECOM MAKES IT EASY AS POSSIBLE

RECOM is well known for making your projects easy.

From start to finish, RECOM engineers are at your side to help integrate power solutions into your designs. With access to RECOM's state-of-the-art R&D center and laboratory wing, you are well-supported.

EXPLORE THE NEW RACPRO1 FAMILY

POWER SUPPLIES FOR DISTRIBUTED POWER ARCHITECTURE

www.recom-power.com/racpro

RECOM Power GmbH
RECOM Engineering GmbH & Co KG
Münzfeld 35
4810 Gmunden
AUSTRIA

Phone: +43 7612 88325 700
info@recom-power.com
https://recom-power.com