

Press Information

Rittal GmbH & Co. KG

*Rittal at HMI in Hanover
from 11 - 15 April 2005
Hall 11, Stand E04*

Emergency power units with fuel cells

At Hanover Fair 2005 Rittal is presenting a 5 kW fuel cell unit for 48 V_{DC} emergency power supply for outdoor applications in the field of mobile radio communications.

Herborn/Hanover, 11 April 2005 - In critical high-availability applications in particular, in the mobile radio sector for instance, where high redundancies by means of emergency power units must be provided, the fuel cell technology will in future be a convincing alternative to battery-based backup systems. In this context Rittal, a trend setter for future technologies, presents at Hanover Fair 2005 a fully functional 5 kW unit for the IdaTech fuel cell ElectraGen5, 48 V_{DC} output voltage. Jointly with the US American fuel cell manufacturer Rittal has developed for these applications a reliable, physical infrastructure solution based on the proven Rittal CS outdoor enclosure and climate technology. The performance range covers the complete sector including the complete system integration.

Hydrogen is supplied, for example, from gas cylinders, located outside the building or rack. The H₂ supply can also be effected by other means, for instance from natural gas or methane converted by reformer technology. The back-up period can be adapted for every location by means of a flexible supply management.

The fuel cell has obvious benefits

In globally linked network infrastructures of base stations for mobile communication in particular, the obvious advantages of the fuel cell technology will

"Fascinating Future" is the banner above the new information platform of Herborn-based company Rittal. Publications of the latest research results are flanked by user reports and other articles documenting the successful implementation of new technologies in the more than 8,000 different Rittal products. After all, the future has many complexions. "Fascinating Future" sets new standards in quality and cost-efficiency. It demonstrates that Rittal is an important partner for the world market when it comes to research and development. For more details, visit: www.fascinating-future.com

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compete successfully in future with the battery-based 48-V_{DC}-backup systems:

- Long service life cuts down required servicing and maintenance work.
- Savings possible due to better adaptability to temperature variations.
- Flexibly scalable back-up periods optimise individually the costs per location
- The fuel cell is reducing overall the total cost of ownership compared with currently used emergency power units

Ultimate availability

The use of fuel cell systems ensures with applications for which a maximum of availability is necessary the largest possible insurance for independent power supply. In contrast to conventional battery-run emergency power units, which are temperature- and solar irradiation-dependent and also have certain disadvantages in terms of ageing processes as well as size and weight, fuel cells operate without any problems within a wide temperature range in the enclosure. Because of the wider range of inside temperatures climate control of the outdoor enclosure can be arranged more cost-effective. In addition fuel cells are both low maintenance and functional at all times and have a considerably longer life than batteries.

Partnership Rittal and IdaTech

The partnership between IdaTech and Rittal is worldwide valid and includes the integration of IdaTech fuel cell technologies into Rittal telecommunication and information technology systems granting the final customer in this way a highly reliable and seamless emergency power supply solution. The partnership agreement covers

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design, sales, and marketing of the company's products.



Rittal

Since its foundation in the year 1961, Rittal GmbH & Co. KG, based in Herborn/Germany, has developed into a global player. Today, Rittal is one of the world's leading system suppliers for enclosure and housing technology, with over 8,000 standard products available for immediate delivery, and a sought-after solution provider in all areas of industry and for all segments of the IT/telecoms market. The Rittal product spectrum covers the fields industrial enclosures, electronic packaging, system climate control, power distribution and IT solutions, alongside a variety of unique outdoor solutions for traffic control systems and telecommunications.

Rittal stands for future-oriented and comprehensive solutions, service and consulting competence. With over 2,000 patents and 300 registered designs, Rittal is a global trendsetter in modern technology packaging. Uncompromising success stories are based on comprehensive know-how, continual research and development, cutting edge high-tech manufacturing methods and consistent quality management.

Under the roof of Rittal International optimum synergies for the customer are created, based on close cooperation with market leaders like Eplan (Number One in Europe for software solutions for general engineering and plant construction and the general industry), Lampertz (a prominent supplier in the field of data and system security), and Litcos (a provider of innovative security concepts for data systems). 19 high-tech production locations – including, since February 2004, a state-of-the-art site in Shanghai, China – 60 subsidiaries; 150 sales and logistic centres and more than 70 agencies around the globe enable us to optimally supply all of the world's market places. In Germany, 22 Rittal sales and logistics centres cater for the customers' every need with nation-wide service. With over 8,500 employees worldwide, Rittal International is the largest company of the Friedhelm Loh Group of Haiger, Germany. Overall, the group has a workforce of more than 10,000.

Pictures:

Rittal fuel cells: Rittal offers for the fuel cell 48 V_{DC} reliable, physical infrastructure solutions based on the proven CS outdoor enclosure and climate control technology including full system integration.

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