

POWERNET - AUXILIARY POWER FOR ROLLING STOCK

POWERNET'S ADC9000 SERIES DESIGN PLATFORM COVERS THE POWER SUPPLIES, CONVERTERS AND BATTERY CHARGERS FROM 300-3200W WITH RAIL APPROVALS ACCORDING TO EN50155. FINAL PRODUCTS WILL OFTEN BE OPTIMIZED IN CO-OPERATION WITH OUR CUSTOMERS. THIS IS A PERFECT COMBINATION OF THE LATEST DESIGN KNOWLEDGE AND THE INDIVIDUAL NEEDS OF EACH CUSTOMER.



Established by two experienced industry professionals in 1992, Powernet Oy's roots have always been in power supply. Powernet revenues reached 11,3M€ in 2012. More than 60% of the business goes directly to the export markets. Today Powernet is primarily present in three key markets – renewable energy such as wind power, transportation including rail, tram, metro as well as trackside applications, and the wide ranging industrial sector including machine builders, automation equipment and telecom solutions.

Introducing the rail approved ADC9000 3kW power supplies, rectifiers and battery chargers Powernet now boost a state-of-the-art product program and design platform to serve the European rail industry. Following the recently introduced ADC9000 500W battery charger the 3kW units now offers very compact, light weight and efficient solutions for higher power range auxiliary power supply needs.

Powernet is today shipping ADC9000 3,2kW 3*400VAC/110VDC and 3,2kW 3*400VAC/24VDC battery chargers as well as 3,0kW 110VDC/24VDC convert-

ers to European customers. Additionally 3,2kW AC/DC and 3,0kW DC/DC versions for different voltages are in development for ongoing projects. AC/DC power supplies for rail applications will typically need 230VAC input and 24/36/48/72 or 110V output depending among other things on battery voltages used. Higher power ranges like 6-12kW will be supported by connecting several base units in parallel.

"A train will accelerate and decelerate for up to 40 years in service, the light weight, compact ADC9000 3kW series brings welcomed space savings as well significant savings in energy over lifetime to the train manufacturers and operators. Thanks to our flexible design platforms Powernet has the ability to develop customer optimized products in a few months timeframe," comments Harry Lilja.

Powernet is not surprisingly a trusted supplier to local train and tram operators in the Nordic countries and Baltic region. Given that Finland can experience temperatures as low as -40°C in the winter, Powernet has shown considerable expertise in developing products that can operate in these challenging conditions.

Powernet's pride is the very competent R&D team located in Vantaa close both to the Finnish capital Helsinki and the Helsinki-Vantaa airport. Powernet also works with a wide range of EMS and service partners where as the company's own factory in Äänekoski is responsible for approximately one third of production. Powernet has recently expanded into the central European market with a local office in Germany. The local presence has opened up many new customer relations and leads and will therefore contribute to the growth of the company.

"Many of our customers are not experts in power supplies and converters themselves, and as such we aim to work closely alongside them as a partner. We pride ourselves on customer intimacy and working with our clients face-to-face where possible. Yet, we remain small enough as a business to be able to act flexibly and react to the customer's needs quickly. Another key benefit is that we undertake the complete process from R&D and design to manufacture and delivery which means we can offer a complete quality solution," remarks Harry Lilja ■

MORE INFORMATION

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POWERNET

Rail Approved ADC9000 power supplies, converters and battery chargers



- 3,2 kW 3*400VAC/110VDC
- 3,2 kW 3*400VAC/24VDC
- 3,0 kW 110VDC/24VDC
- 500 W 230VAC/24VDC
- Customer/project specific versions
- Module power range 300-3200W
- Compact, light weight, energy efficient
- Rack mounting solutions
- CAN-Bus communication option

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