

> PDU | Power Distribution Unit

by Rose Systemtechnik



A Phoenix Mecano Company



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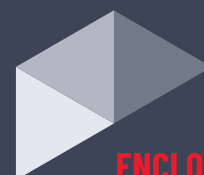
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ENCLOSURE SYSTEMS

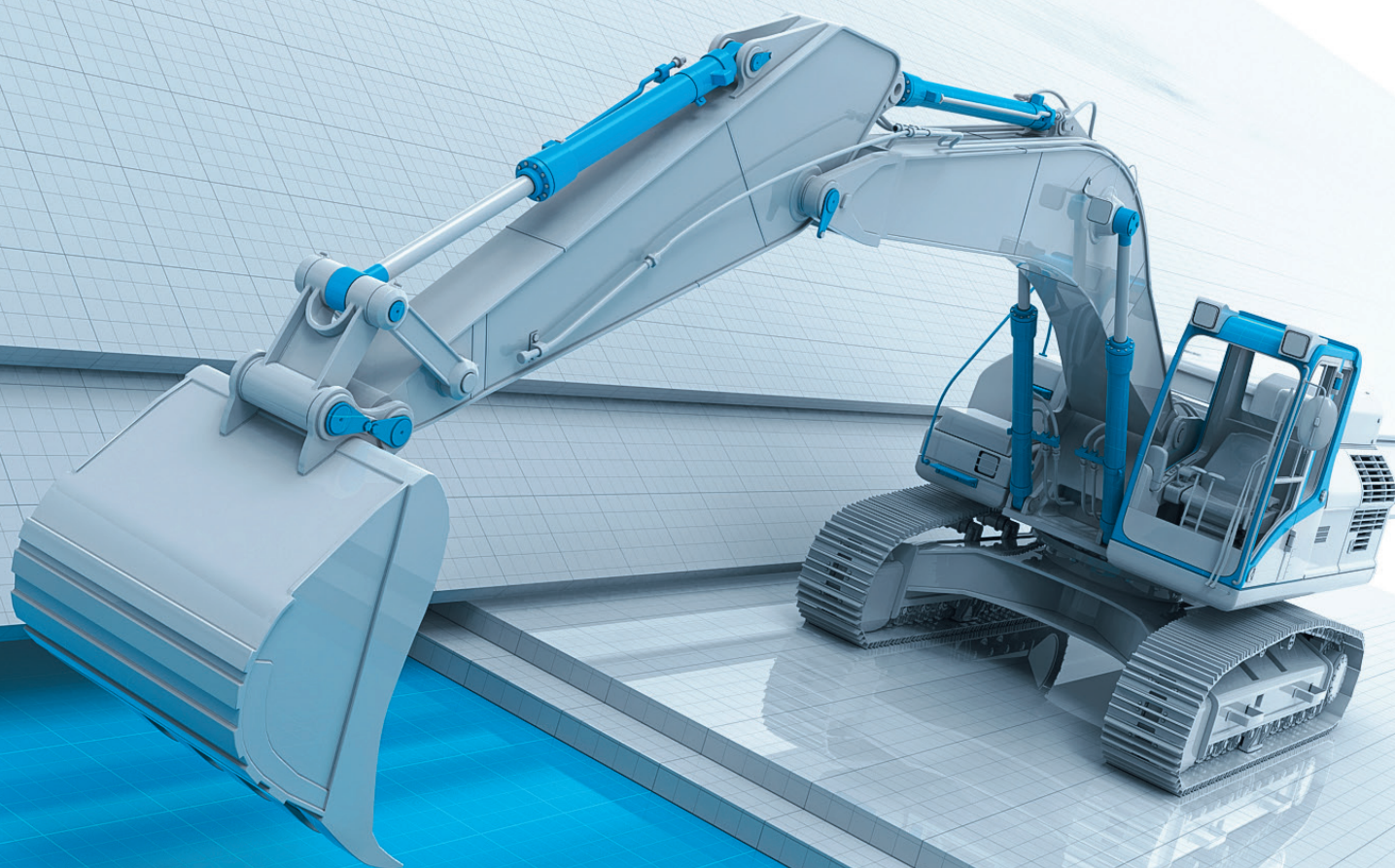


ROSE

A Phoenix Mecano Company

HV PDU

High Voltage Power Distribution Unit
by Rose Systemtechnik



Enclosure solutions for HV PDU systems

Climate change is constantly presenting us with new challenges. In order to achieve the climate targets in Europe, several million alternatively fuelled commercial vehicles must be put into operation by 2030.

At ROSE Systemtechnik, we are facing up to our responsibility and want to accompany and support the change in the vehicle industry towards more environmentally friendly technologies with innovative and sustainable enclosure solutions. The electrification and energy management of commercial vehicles is an important component in the e-vehicle environment. This task is performed by the HV PDU (High Voltage Power Distribution Unit). This is a high-voltage distributor that acts as a central link between the vehicle electronics and the individual units, batteries and electric motors.

Our HV PDU solutions are impressive in vehicle construction:

- + High protection classes such as IP6K9K or IP69K
- + Vibration resistance
- + A slimline water cooling system
- + Vibration damper

Thanks to a high degree of customisation, ROSE can supply you with your individual enclosure solution for your HV PDU unit. From prototype to series production, our qualified team is at your side to support you in the realisation and implementation of your specific requirements.

The optimal solution

When it comes to withstanding adverse environments and protecting the inside of the enclosure, ROSE Systemtechnik is a reliable partner with its products. Our enclosures have proven themselves in all industries for over 50 years. Regular internal and external tests guarantee the high quality of our product portfolio. The customised HV PDUs pass both the IP6K9K protection class relevant for vehicles and a wide range of vibration tests without any defects. If required, we can also integrate reliable vibration damping or a slimline water cooling



system that can be connected to the vehicle's cooling system. Our HV PDU solutions leave nothing to be desired.

Customised development

To ensure that your PDU solution fits perfectly, our expert solutions team, consisting of designers and engineers, will work with you to develop the right customised enclosure. We see ourselves not only as a supplier, but also as a solution partner. Contact us and you can be sure that we will not just provide you with a product, but will work with you to develop the optimum solution - customised to your individual requirements.

Standard enclosure for all purposes

The standard enclosures from ROSE Systemtechnik are available in a wide variety of materials and are used in many areas of application. Thanks to our many years of expertise, we know the requirements for the enclosures very well. Our standard enclosures are offered as empty enclosures. Thanks to high availability and short delivery times, the empty enclosures are promptly on site and ready for use. On request, all empty enclosures can be customised according to customer specifications and assembled to your requirements. The enclosures can be painted, engraved, laser-engraved or printed with your own company logo to suit your requirements.



ROSE Systemtechnik PDU enclosure solutions

Reliability.

High-quality products from a competent partner
Industry-specific certificates guaranteed
Sensitive operating electronics perfectly protected

Quality.

A matter of course at Rose Systemtechnik
Long service life thanks to high material quality
Customised testing in our in-house laboratory

Flexibility.

Customised enclosure systems for every application
Customised solutions made from all materials
Global production and sales network

Speed.

Fast and solution-orientated response to customer enquiries
Short-term production in Germany
Short delivery times for smooth operation

What does ROSE has to offer?

- > 3D models/prototype construction
- > Project management
- > Development performance
- > In-house laboratory/tests
- > Solutions from standard enclosures and customised enclosure solutions according to your specifications
- > Temperature resistance
- > Machining and assembly options
- > High degrees of protection (up to IP69 possible)
- > EMC shielding
- > Enclosure made of aluminium, plastic and stainless steel
- > Experience with regard to vibration resistance according to ISO 16750-3 (vibration test)
- > From prototype to series production requirements

What licences do we offer?

- > ATEX in accordance with the European 2014/34/EU and EN 60079 standards
- > IEC Ex in accordance with the international IEC 60079- EAC/TRCU
- > UL Ex approval for the US market NEC505 (Ex e - increased safety only)
- > INMETRO (Brazil), PESO for India, IA (Explolabs) South Africa
- > Marine certifications
- > ISO 9001
- > Quality-assured as an ex-production facility for all ROSE and Phoenix Mecano operations
- > Railway authorisation
- > Welding approval
- > UKCA Ex
- > UL 508 A