



PDU

Power Distribution Unit

by Rose Systemtechnik



ENCLOSURE SYSTEMS

Enclosure solutions for PDU systems

Climate change keeps presenting us with new challenges. In order to be able to achieve the climate goals in Europe, several million alternatively powered commercial vehicles must be put into operation by 2030.

We at ROSE Systemtechnik face 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 housing solutions.

An important building block in the field of electric vehicles is the electrification and energy management of commercial vehicles. This task is performed by the PDU (Power Distribution Unit). This is a high-voltage distributor that acts as the central link between the vehicle electronics and the individual units, batteries, and electric motors.

In vehicle construction, we support your needs, among other things:

- + For the electrification of construction and agricultural machinery (non road)
- + The construction of transport vehicles (buses)
- + For special machines
- + And any electric or hybrid vehicle in which high voltage must be safely distributed

With a high degree of customizing, ROSE can provide you with your individual housing solution for your PDU unit. From the prototype to the series, we are at your side with our qualified team and support you in the realization and implementation of your special requirements.

If our standard housing does not fit your PDU solution, our competent solution team, consisting of designers and engineers, will work with you to develop the right special housing.

The optimal housing for every area

When it comes to defying adverse environments and protecting the inside of the housing, ROSE Systemtechnik and its products are a reliable partner. For more than 50 years, our housings have proven themselves in all sectors. Regular internal and external tests and examinations ensure the high quality of our product portfolio.

Customized enclosures from ROSE Systemtechnik

We see ourselves not just as a supplier, but as a solution partner. Talk to us and you can be sure that we will not only provide you with a product, but that we will work with you to develop the optimal solution – tailored to your individual needs.

Standard housing for every application

The standard housings from ROSE Systemtechnik are offered 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 housing very well. Our standard housings are offered as empty housings. Thanks to the high level of availability and short delivery times, the empty housings are on site and ready for use in a timely manner.



All empty housings can be processed individually according to customer demands and assembled according to your specifications. The housing can be painted, engraved, lasered or printed with your own company logo according to your requirements.

ROSE Systemtechnik PDU housing solutions

Reliability.

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

Quality.

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

Flexibility.

Individual housing systems for every application
Special solution made of all materials
Global production and sales network

Speed.

Fast and solution-oriented response to customer inquiries
Short-term production in Germany
Short delivery time for smooth operation

What does ROSE Systemtechnik has to offer?

- > 3D models / prototype construction
- > Project management
- > Development service
- > In-house laboratory/tests
- > Solutions from standard housings and customer-specific housing solutions according to your specifications
- > Temperature resistance
- > Machining and assembly options
- > High degrees of protection (up to IP 69 possible)
- > EMC shielding
- > Housing made of aluminium, plastic and stainless steel
- > Experience regarding vibration resistance according to ISO 16750-3 (vibration test)
- > From prototype to series production

What approvals do we have to offer?

- > ATEX according to European 2014/34/EU and EN 60079 standards
- > IEC Ex according to international IEC 60079-EAC/TRCU (Russia, Belarus and Kazakhstan)
- > 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 site for all ROSE and Phoenix Mecano companies
- > Railway approval
- > Welding approval
- > UKCA Ex
- > UL 508 A

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