DNV·GL

Certificate No:
TAE00003W7

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electrical Equipment

with type designation(s)
Power Panel PP96 / PP72

Issued to
Karl Dose GmbH
Hamburg, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature	**D**
Humidity	**B**
Vibration	**A**

Issued at **Hamburg** on **2020-12-01**
This Certificate is valid until **2025-11-30**.
DNV GL local station: **Hamburg**

Approval Engineer: **Maik Gagern**

for **DNV GL**

Arne Schaarmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Power Panel for up to 96 Reefer Container Sockets

Technical Data

Input voltage:	380-440V
Frequency:	50/60Hz
Weight:	up to approx.. 500kg
Dimensions:	up to 2110 x 1100 x 450mm
Output voltage:	380-440V
Output current:	max. 1200A
Socket outlet:	96(72) x 32A 3ph +PE 3h
Front side protection:	IP 56
Rear side protection:	IP54
Socket protection:	IP 56/67

Application/Limitation

The TA was carried out according to DNV GL Class Guideline DNVGL-CG-0339. MSC.1/Circ.1352 should be taken into account, when installing on a vessel, if mandatory by the Administration.

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

DNV GL Class Guideline DNVGL-CG-0339, Edition Dec. 2016

Marking of product

Maker's trademark
Type designation

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type Approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

End of Certificate