DNV·GL

Certificate No:
TAA0000154

TYPE APPROVAL CERTIFICATE

This is to certify:

That the DC Power Supply

with type designation(s)
787-2852

Issued to
WAGO Kontakttechnik GmbH & Co. KG
Minden, Germany

is found to comply with
DNV GL rules for classification – Ships

Application :

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

Location class:

Temperature	**B**
Humidity	**A**
Vibration	**A**
EMC	**A**
Enclosure	**A**

Issued at **Hamburg** on **2017-04-11**
This Certificate is valid until **2021-12-18**.
DNV GL local station: **Magdeburg**

Approval Engineer: **Klaus-Peter Schröder**

for **DNV GL**

Joannis Papanuskas
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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Job Id: **262.1-024253-1**
Certificate No: **TAA0000154**

Product description

Primary Switch-Mode Power Supply - Technical data

Nominal input voltage	100 … 240Vac
Nominal input current (nominal load)	0,49 A (100 Vac) 0,28 A (240 Vac)
Terminals input	Wago picoMAX® eCOM 5.0 series 2092, max 2,5 mm²
Nominal output voltage	24 Vdc ± 2 %
Nominal output current	1 A
Terminals output	Wago picoMAX® eCOM 5.0 series 2092, max 2,5 mm²
Signaling "DC OK", LED green lit permanently Signaling "Overload", LED red lit permanently Signal contact "DC OK"	Uout > 21,0 V Uout < 21,5 V Uout > 21,0 V max. 20 mA @ 24 Vdc
Mounting	on standard rail DIN EN 60715-TH35-15/7,5

Application/Limitation

The Type Approval covers hardware listed under Product description.
When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case.
Reference is made to DNV GL RU SHIP Pt.4 Ch.9 Sec. 1.

Type Approval documentation

Tests carried out

Applicable tests according to Class Guideline DNVGL-CG-0339, Edition November 2015.

Marking of product

The products to be marked with:

- manufacturer name
- device name
- input / output data

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.
The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed at least every second year and at renewal of this certificate.
END OF CERTIFICATE