

TYPE APPROVAL CERTIFICATE

This is to certify:

That the DC Power Supply

with type designation(s)

Product Line "SITOP modular" - Power Supply Module Types as listed below

Issued to

**Siemens AG Österreich
Wien, Austria**

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.

Temperature	B
Humidity	B
Vibration	A
EMC	A
Enclosure	A

This Certificate is valid until **2022-02-16**.

Issued at **Hamburg** on **2017-02-17**

DNV GL local station: **Augsburg**

for **DNV GL**

Approval Engineer: **Maik Gagern**

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**Duy Nam Le
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.

Product description

Rated Input Voltage Ue 120 / 230 / 500V AC

Type	Rated Output Voltage Ua	Rated Output Current Ia
6EP1333-3BA00	24V DC	5A
6EP1333-3BA10	24V DC	5A
6EP1333-3BA10-8AC0	24V DC	5A
6EP1334-3BA00	24V DC	10A
6EP1334-3BA10-8AB0	24V DC	10A
6EP1334-3BA10	24V DC	10A

Rated Input Voltage Ue 120 / 230V AC

Type	Rated Output Voltage Ua	Rated Output Current Ia
6EP3333-8SB00-0AY0	24V DC	5A
6EP3334-8SB00-0AY0	24V DC	10A
6EP3337-8SB00-0AY0	24 V	40 A
6EP1336-3BA00	24V DC	20A
6EP1336-3BA10	24V DC	20A

Rated Input Voltage Ue 400 - 500V AC

Type	Rated Output Voltage Ua	Rated Output Current Ia
6EP1436-3BA00	24V DC	20A
6EP1436-3BA10	24V DC	20A
6EP1436-3BA20	24V DC	17A
6EP1437-3BA10	24V DC	40A
6EP3436-8SB00-0AY0	24V DC	20A
6EP1456-3BA00	48V DC	10A
6EP1457-3BA00	48V DC	20A

Rated Input Voltage Ue 600V DC

Type	Rated Output Voltage Ua	Rated Output Current Ia
6EP1536-3AA00	24V DC	20A

Application/Limitation

For modules intended for rated input voltage 500V AC:
Overvoltage shutdown at 550 V AC

For module intended for rated input voltage Ue 600V DC:
Without external EMC filter for DC connection to converter DC link only

Type Approval documentation

Acc. to TA File GL 20491-11 HH

Tests carried out

DNV GL Rules for Classification DNVGL-RU-0050, Edition 2016-01
DNV GL Class Guidelines DNVGL-CG-0339, Edition 2015-11

Marking of product

Maker's trademark
Type designation
Rated input voltage / current
Rated output voltage / current



Job Id:
Certificate No: **TAA00000RS**

Periodical assessment

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

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line
 - 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.
- Survey to be performed at least every second year.

END OF CERTIFICATE