



CERTIFICATE NUMBER
15-HG1423170-PDA

DATE
14 Sep 2015

ABS TECHNICAL OFFICE
Hamburg Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of

SIEMENS AG OESTERREICH, SIMEA

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Power Supply Unit**

Model: **SITOP Modular, SITOP UPS, SITOP smart, SITOP PSU**

This Product Design Assessment (PDA) Certificate 15-HG1423170-PDA, dated 14/Sep/2015 remains valid until 13/Sep/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Ulf Numirski
Senior Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

SIEMENS AG OESTERREICH

SIEMENSSTRASSE 90-92

A-1211 WIEN

Austria

Telephone: +43-51707-28751

Fax: +43-51707-53560

Email: leo.karl@siemens.com

Web: www.siemens.at

Tier: 2 - PDA Issued

Product: Power Supply Unit

Model: SITOP Modular, SITOP UPS, SITOP smart, SITOP PSU

Intended Service:

Power supply modules for installation in consoles and cabinets, located in general power distribution zones.

Description:

Power supply units with wide input ranges.

Rating:

Power Supply: 120 - 500 V AC

Output Voltage: 24/48 V DC

Degree of Protection: IP20/65

For more details please see attachment.

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchasers request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Units are not to be installed neither on bridge nor deck zone.

Comments:

Each particular application is to be specifically approved in conjunction with the relevant arrangements and systems. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Drawing No. 01, Assembly_layout_schematic_6EP4134-3AB00-xAY0_6EP4136-3AB00-xAY0, Revision: 1, Pages: 1

Drawing No. 02, GL_2012_item_5-6-7_6EP4136-3AB00-0AY0_represents_6EP4134-3AB00-xAY0, Revision: 1, Pages: 1

Drawing No. 03, EMC_UPS-1600-20A-Profinet_mit-GL-represents_10A_and_Battery_Modules_1_2-3_2-7-Ah, Revision: 1, Pages: 1

Drawing No. 04, EMC_UPS-1600-20A-USB_mit-GL-represents_10A_and_Battery_Modules_1_2-3_2_7_Ah, Revision: 1, Pages: 1

Drawing No. 05, Vibration_DC-USV_10_20_A_GL_Bericht AIT und Ergebnis_2013-04-09, Revision: 1, Pages: 1

Drawing No. 06, Assembly_layout_schematic_6EP4137-3AB00_xAY0, Revision: 1, Pages: 1

Drawing No. 07, GL_2012_item_5-6-7_6EP4137-3AB00-0AY0_signed, Revision: 1, Pages: 1

Drawing No. 08, EMC_40A-Profinet_represents_Battery_Module_2_5_and_12_Ah, Revision: 1, Pages: 1

Drawing No. 09, EMC_40A-USB_represents_Battery_Module_7_and_12_Ah, Revision: 1, Pages: 1

Drawing No. 10, Vibration_SITOP UPS1600_40A_Profinet_represents_USB, Revision: 1, Pages: 1

Drawing No. 11, GL_2012_item_5-6-7_6EP4133-0JB00-0AY0_signed, Revision: 1, Pages: 1

Drawing No. 12, GL_2012_item_5-6-7_6EP4135-0GB00-0AY0_signed, Revision: 1, Pages: 1

Drawing No. 13, Vibration_5_Battery_Modules, Revision: 1, Pages: 1

Drawing No. 14, Witness-test-report-Germanischer_Lloyd_March_2015, Revision: 1, Pages: 1

Terms of Validity:

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SIEMENS AG OESTERREICH
SIEMENSSTRASSE 90-92
A-1211 WIEN
Austria
Telephone: +43-51707-28751
Fax: +43-51707-53560
Email: leo.karl@siemens.com
Web: www.siemens.at

Tier: 2 - PDA Issued

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STANDARDS

ABS Rules:

2015 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-3/1.7/1.9/1.11/1.17/5.11, 4-9-8/7/13

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA

Product Design Assessment (PDA) Certificate for Component Details

PDA Certificate No: 15-HG1423170-PDA
 Company: Siemens AG Oesterreich, Simea
 Product/Equipment: Power Supply Unit
 Model: SITOP Modular, SITOP UPS, SITOP smart, SITOP PSU

Type	Rated output voltage Ua	Rated output current Ia
SITOP Modular		
Rated input voltage Ue 230/ 500 V AC		
6EP1333-3BA00	24 V DC	5 A
6EP1333-3BA10	24 V DC	5 A
6EP1333-3BA10-0AC0	24 V DC	5 A
6EP1334-3BA00	24 V DC	10 A
6EP1334-3BA10	24 V DC	10 A
6EP1334-3BA10-8AB0	24 V DC	10 A
Rated input voltage Ue 120/ 230 V AC		
6EP1336-3BA00	24 V DC	20 A
6EP1336-3BA10	24 V DC	20 A
Rated input voltage Ue 400 – 500 V AC		
6EP1436-3BA00	24 V DC	20 A
6EP1436-3BA10	24 V DC	20 A
6EP1437-3BA10	24 V DC	40 A
6EP1456-3BA00	48 V DC	10 A
6EP1457-3BA00	48 V DC	20 A
SITOP UPS		
Rated input voltage 24 V DC		
6EP1931-2DC21, 31, 42	24 V DC	6 A
6EP1931-2EC21, 31, 42	24 V DC	15 A
6EP1931-2FC21, 42	24 V DC	40 A
6EP1933-2EC41, 51	24 V DC	15 A
6EP1935-5PG01	24 V DC	15 A
6EP1961-3BA01	24 V DC	40 A
6EP1961-3BA21	24 V DC	6 A
6EP4134-3AB00-xAY0	24 V DC	10 A
6EP4136-3AB00-xAY0	24 V DC	20 A
6EP4137-3AB00-xAY0	24 V DC	40 A
Product Code Digit x with regard to the external Interface Type: 0 no Interface, 1 USB Interface, 2 Profinet Interface		
SITOP Battery Module		
Rated input voltage N/A		
6EP1935-6MC01	24 V DC	6 A, 1.2 Ah
6EP1935-6MD11	24 V DC	10 A, 3.2 Ah
6EP1935-6MD31	24 V DC	15 A, 4.5 Ah
6EP1935-6ME21	24 V DC	30 A, 7 Ah
6EP1935-6MF01	24 V DC	30 A, 12 Ah
6EP4131-0GB00-0AY0	24 V DC	5 A, 1.2 Ah
6EP4132-0GB00-0AY0	24 V DC	5 A, 2.5 Ah
6EP4133-0GB00-0AY0	24 V DC	5 A, 3.2 Ah
6EP4134-0GB00-0AY0	24 V DC	5 A, 7 Ah
6EP4135-0GB00-0AY0	24 V DC	5 A, 12 Ah
6EP4133-0JB00-0AY0	24 V DC	5 A, 5 Ah

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Product/Equipment: Power Supply Unit
Model: SITOP Modular, SITOP UPS, SITOP smart, SITOP PSU

Type	Rated output voltage Ua	Rated output current In
SITOP smart		
Rated input voltage Ue 120/ 240 V AC		
6EP1332-2BA10	24 V DC	2.5 A
6EP1333-2AA01	24 V DC	5.0 A
6EP1333-2BA01	24 V DC	5.0 A
6EP1334-2AA01	24 V DC	10 A
6EP1334-2BA01	24 V DC	10 A
6EP1437-2BA20	24 V DC	40 A
SITOP smart		
Rated input voltage Ue 400 – 500 V AC		
6EP1436-2BA10	24 V DC	20 A
6EP1434-2BA10	24 V DC	10 A
SITOP PSU 8200		
Rated input voltage Ue 120/230 V AC		
6EP3333-8SB00-0YA0	24 V DC	5 A
6EP3334-8SB00-0YA0	24 V DC	10 A
SITOP PSU 8200		
Rated input voltage Ue 400 - 500 V AC		
6EP3436-8SB00-0AY0	24 V DC	20 A