



CERTIFICATE NUMBER	26-0442641-PDA
EFFECTIVE DATE	02-Feb-2026
EXPIRY DATE	01-Feb-2031
ABS TECHNICAL OFFICE	Hamburg Engineering Department

CERTIFICATE OF Product Design Assessment

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

PHOENIX CONTACT GMBH & CO. KG

located at

FLACHSMARKTSTR. 8, , BLOMBERG, Germany, D-32825

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: **QUINT4-PS/1AC/24DC/5, QUINT4-PS/1AC/24DC/10, QUINT4-PS/1AC/24DC/10/CO, QUINT4-PS/1AC/24DC/20, QUINT4-PS/1AC/24DC/20/+, QUINT4-PS/3AC/24DC/5, QUINT4-PS/3AC/24DC/10, QUINT4-PS/3AC/24...**

Endorsements:

Tier: **2 - PDA Issued**

This Product Design Assessment (PDA) Certificate remains valid until 01/Feb/2031 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping

Efstratios Maliatsos, Engineer/Consultant

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 ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Tier: 2 - PDA Issued

Product: Power Supply Unit

Model: QUINT4-PS/1AC/24DC/5, QUINT4-PS/1AC/24DC/10, QUINT4-PS/1AC/24DC/10/CO, QUINT4-PS/1AC/24DC/20, QUINT4-PS/1AC/24DC/20/+, QUINT4-PS/3AC/24DC/5, QUINT4-PS/3AC/24DC/10, QUINT4-PS/3AC/24DC/20, QUINT4-PS/1AC/48DC/10, QUINT4-PS/1AC/48DC/10/CO, QUINT4-PS/1AC/24DC/40, QUINT4-PS/3AC/24DC/40, QUINT4-PS/1AC/12DC/15, QUINT4-PS/1AC/48DC/5, QUINT4-PS/24DC/24DC/5/PT, QUINT4-PS/24DC/24DC/5/SC, QUINT4-PS/24DC/24DC/10/PT, QUINT4-PS/24DC/24DC/10/SC, QUINT4-PS/24DC/12DC/8/PT, QUINT4-PS/24DC/12DC/8/SC, QUINT4-PS/48DC/24DC/5/PT, QUINT4-PS/48DC/24DC/5/SC, QUINT4-PS/24DC/24DC/20/PT, QUINT4-PS/24DC/24DC/20/SC, QUINT4-PS/24DC/24DC/20/SC/+, QUINT4-PS/1AC/48DC/20, QUINT4-PS/1AC/110DC/4, QUINT4-PS/3AC/24DC/5/F, QUINT4-PS/3AC/24DC/10/F, QUINT4-PS/3AC/48DC/20, QUINT4-PS/3AC/24DC/20/IOL, QUINT4-PS/3AC/24DC/40/IOL, QUINT4-PS/1AC/24DC/10/+, QUINT4-PS/1AC/24DC/40/+, QUINT4-PS/3AC/24DC/20/CO, QUINT4-PS/3AC/24DC/40/CO, QUINT4-PS/1AC/24DC/10/+F, QUINT4-PS/1AC/24DC/20/+F, QUINT4-PS/24DC/24DC/20/PT/+

Endorsements:

Intended Service:

DIN-rail installed power supply units for automation systems.

Description:

Primary Switch AC/DC converters & DC/DC converters units with Selective Fuse Breaking Technology.

Rating:

QUINT-PS AC/DC Converters

Nominal input voltage (wide-range input): 1 AC: 100 - 240 V AC, 3 AC: 400 - 500 V AC.

Nominal output voltage: 12V DC, 24 V DC, 48 V DC

Nominal output current: 5A, 10A, 15A, 20A, 40A

Ambient temperature: -25°C ... +70°C.

Degree of protection: IP20.

Protection class: I.

Certified Safe Equipment: QUINT4-PS/1AC/24DC/20/+

II 3G Ex ec ic nC IIC T4 Gc as per IECEx SIQ 18.0005X (suitable for installation in Zone 2).

QUINT4-PS DC/DC Converters

Nominal input voltage: 24V DC, 48V DC

Nominal output voltage: 12V DC, 24V DC

Nominal output current: 5A, 8A, 10A, 20A

Ambient temperature: -25 ... +70

Degree of Protection: IP20

Certified Safe Equipment: QUINT4-PS/24DC/24DC/20/SC/+

Ex ec ic nC IIC T4 Gc (IECEx SIQ 20.0002X)

II 3G Ex ec ic nC IIC T4 Gc (BVS 20 ATEX E 028 X)

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Service Restriction:

1. Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
2. QUINT-PS AC/DC Converters are approved for installation in the general power distribution zone only.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Ex certification is not covered by this certificate. Installation in hazardous areas is to be in accordance with any special conditions for safe use detailed in the applicable Ex certificate issued by a notified body.

Notes/Drawing/Documentation:

See the attachment for documentation.

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 01/Feb/2031 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

2026 Rules for Conditions of Classification: 1-1-4/7.7, 1-1-A3, 1-1-A4, which cover the following:

2026 Rules for Building and Classing Marine Vessels: 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-8-3/13, 4-9-9/7, 4-9-9/13.1, 4-9-9/Table 1

2026 Rules for Conditions of Classification - Offshore Units and Structures: 1B-1-4/9.7, 1B-1-A2, 1-1-A3, which cover the following:

2026 Rules for Building and Classing Offshore Units: 4-3-1/11, 4-3-1/15, 4-3-1/17, 4-3-3/9

National:

NA

International:

NA

Government:

NA

EUMED:

NA

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OTHERS:

NA