



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Phoenix Contact GmbH & Co. KG
Address	Flachsmarktstr. 8, Blomberg, 32825, Germany
Type	Power Distribution Systems & Power Supplies
Description	Primary-switched power supply units refer to the Appendix for details
Trade Name	QUINT4-PS and QUINT4-SYS
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – July, 2015.
Specified Standard	Manufacturer's specification IACS unified requirements E10 (Rev. 8 Feb. 2021)
Ratings	refer to the Appendix for ratings
Additional Tests	Low temperature (-25°C/16 hrs) Vibration 2.3g
Other Conditions	Derating factor for ambient air temperature above 60°C is to be obtained from the manufacturer.

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 17-20107-03

The Design Appraisal Document HPC1562218-23/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPES	Order No.	Input voltage range	Nominal output voltage	Nominal output current
QUINT4-PS/1AC/12DC/15	2904608	100 – 240 VAC / 110 – 250 VDC	12 VDC	15 A
QUINT4-PS/1AC/24DC/5	2904600	100 – 240 VAC / 110 – 250 VDC	24 VDC	5 A
QUINT4-PS/1AC/24DC/10	2904601	100 – 240 VAC / 110 – 250 VDC	24 VDC	10 A
QUINT4-PS/1AC/24DC/10/CO	2904625	100 – 240 VAC / 110 – 250 VDC	24 VDC	10 A
QUINT4-PS/1AC/24DC/10/+	2904616	100 – 240 VAC / 110 – 250 VDC	24 VDC	10 A
QUINT4-PS/1AC/2X15DC/2/PT	2904596	100 – 240 VAC / 110 – 250 VDC	± 15 VDC	2 A
QUINT4-PS/1AC/2X15DC/2/SC	1092847	100 – 240 VAC / 110 – 250 VDC	± 15 VDC	2 A
QUINT4-PS/1AC/24DC/20	2904602	100 – 240 VAC / 110 – 250 VDC	24 VDC	20 A
QUINT4-PS/1AC/24DC/20/+	2904617	100 – 240 VAC / 110 – 250 VDC	24 VDC	20 A
QUINT4-PS/1AC/24DC/40	2904603	100 – 240 VAC / 110 – 250 VDC	24 VDC	40 A
QUINT4-PS/1AC/48DC/5	2904610	100 – 240 VAC / 110 – 250 VDC	48 VDC	5 A
QUINT4-PS/1AC/48DC/10	2904611	100 – 240 VAC / 110 – 250 VDC	48 VDC	10 A
QUINT4-PS/1AC/48DC/10/CO	2904626	100 – 240 VAC / 110 – 250 VDC	48 VDC	10 A
QUINT4-PS/1AC/48DC/20	2904612	100 – 240 VAC / 110 – 250 VDC	48 VDC	20 A
QUINT4-PS/1AC/110DC/4	2904613	100 – 240 VAC / 110 – 250 VDC	110 VDC	4 A
QUINT4-SYS-PS/1AC/24DC/2.5/SC	2904614	100 – 240 VAC / 110 – 250 VDC	24 VDC	2.5 A
QUINT4-PS/3AC/24DC/5	2904620	400 – 500 VAC / ± 300 VDC	24 VDC	5 A
QUINT4-PS/3AC/24DC/10	2904621	400 – 500 VAC / ± 300 VDC	24 VDC	10 A
QUINT4-PS/3AC/24DC/20	2904622	400 – 500 VAC / ± 300 VDC	24 VDC	20 A
QUINT4-PS/3AC/24DC/20/IOL	1151048	400 – 500 VAC / ± 260 VDC - 300 VDC	24 VDC	20A
QUINT4-PS/3AC/24DC/40	2904623	400 – 500 VAC / ± 300 VDC	24 VDC	40 A
QUINT4-PS/3AC/24DC/40/IOL	1151047	400 – 500 VAC / ± 260 VDC - 300 VDC	24 VDC	40 A
QUINT4-PS/3AC/48DC/20	2904627	400 – 500 VAC / ± 260 VDC - 300 VDC	48 VDC	20 A
QUINT4-PS/12DC/24DC/5/PT	2910124	12 VDC (9 VDC - 16.8 VDC)	24 VDC	5 A
QUINT4-PS/12DC/24DC/5/SC	1046859	12 VDC (9 VDC - 16.8 VDC)	24 VDC	5 A
QUINT4-PS/24DC/12DC/8/PT	2910122	24 VDC (18 VDC - 33.6 VDC)	12 VDC	8 A
QUINT4-PS/24DC/12DC/8/SC	1046806	24 VDC (18 VDC - 33.6 VDC)	12 VDC	8 A
QUINT4-PS/24DC/24DC/5/PT	2910119	24 VDC (18 VDC - 33.6 VDC)	24 VDC	5 A
QUINT4-PS/24DC/24DC/5/SC	1046800	24 VDC (18 VDC - 33.6 VDC)	24 VDC	5 A
QUINT4-PS/24DC/24DC/5/PT/CO	2910132	24 VDC (18 VDC - 33.6 VDC)	24 VDC	5 A
QUINT4-PS/24DC/24DC/5/SC/CO	1046872	24 VDC (18 VDC - 33.6 VDC)	24 VDC	5 A
QUINT4-PS/24DC/24DC/10/PT	2910120	24 VDC (18 VDC - 33.6 VDC)	24 VDC	10 A
QUINT4-PS/24DC/24DC/10/SC	1046803	24 VDC (18 VDC - 33.6 VDC)	24 VDC	10 A
QUINT4-PS/24DC/24DC/10/PT/CO	2910133	24 VDC (18 VDC - 33.6 VDC)	24 VDC	10 A
QUINT4-PS/24DC/24DC/10/SC/CO	1046880	24 VDC (18 VDC - 33.6 VDC)	24 VDC	10 A
QUINT4-PS/24DC/24DC/20/PT	2910121	24 VDC (18 VDC - 33.6 VDC)	24 VDC	20 A
QUINT4-PS/24DC/24DC/20/SC	1046805	24 VDC (18 VDC - 33.6 VDC)	24 VDC	20 A
QUINT4-PS/24DC/24DC/20/PT/+	2910134	24 VDC (18 VDC - 33.6 VDC)	24 VDC	20 A
QUINT4-PS/24DC/24DC/20/SC/+	1046881	24 VDC (18 VDC - 33.6 VDC)	24 VDC	20 A
QUINT4-PS/24DC/48DC/5/PT	2910123	24 VDC (18 VDC - 33.6 VDC)	48 VDC	5 A
QUINT4-PS/24DC/48DC/5/SC	1046855	24 VDC (18 VDC - 33.6 VDC)	48 VDC	5 A

QUINT4-PS/48DC/24DC/5/PT	2910125	48 VDC (28.8 VDC - 57.6 VDC)	24 VDC	5 A
QUINT4-PS/48DC/24DC/5/SC	1046860	48 VDC (28.8 VDC - 57.6 VDC)	24 VDC	5 A
QUINT4-PS/48DC/48DC/5/PT	2910128	48 VDC (28.8 VDC - 57.6 VDC)	48 VDC	5 A
QUINT4-PS/48DC/48DC/5/SC	1046867	48 VDC (28.8 VDC - 57.6 VDC)	48 VDC	5 A

The QUINT 4 PS can be configured or directly delivered with customer specific parameterizations such as output current limitation, voltage adjustment or signalling, identified by a 1 to 30 character alphanumeric suffix (any combination of letters/numbers) behind the type designation:

Output characteristic (alternative to default U/I advanced characteristic available)

- limitation of short circuit current (Smart HICCUP)
- functionality to switch off output voltage 24 V DC if output power exceeds an adjustable level (FUSE MODE)

Signals

- signal contacts can be used for different outputs (for example: output current, output power) with adjustable thresholds

Control input

- Switch on and off signal of remote-control input can be inverted.

Output voltage

- output voltage can be adjusted by using the front buttons of the device or the NFC Interface
- voltage drop over output power can be adjusted (e.g. PARALLEL MODE)
- front buttons for output voltage can be locked