



Ref. Certif. No.

DK-168304-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Open Type Switch Mode Power Supply

Name and address of the applicant

PULS GmbH
Elektrastr. 6 München 81925
Germany

Name and address of the manufacturer

PULS GmbH
Elektrastr. 6 München 81925
Germany

Name and address of the factory

PULS ELECTRONICS (SUZHOU) CO LTD
NO 1 RUI EN LANE XINGPU RD, SIP SUZHOU, Jiangsu, 215021
China

Note: When more than one factory, please report on page 2

☒ [Additional Information on page 2](#)

Ratings and principal characteristics

TP960.24c-dd-eee:
Input:
3AC 380-500 V, 1.96-1.5 A, 50-60 Hz
☒ [Additional Information on page 2 and 3](#)

Trademark / Brand (if any)



Customer's Testing Facility (CTF) Stage used

CTF Stage 1

Model / Type Ref.

TP960.bbc-dd-eee
☒ [Additional Information on page 2](#)

Additional information (if necessary may also be reported on page 2)

National Differences: EU Group Differences, CA, JP, US
☒ [Additional Information on page 3](#)

A sample of the product was tested and found to be in conformity with

IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016, IEC 61010-2-201:2017

As shown in the Test Report Ref. No. which forms part of this Certificate

E198865-D6001-CB-1 issued on 2025-08-28

This CB Test Certificate is issued by the National Certification Body



- ☐ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- ☒ UL Solutions (Denko), Borupvang 5A DK-2750 Ballerup, DENMARK
- ☐ UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- ☐ UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2025-08-29

Signature:

Thomas Wilson



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Factory(ies):

PULS INVESTICNI S R O
PRAZSKA 5639 CHOMUTOV 430 01
Czech Republic

Additional Model Detail(s):

TP960.bbc-dd-eee,

bb:

24...Nominal output voltage 24Vdc or 24-28Vdc

48...Nominal output voltage 48Vdc or 48-56Vdc

c:

1...DC-OK terminal, AC-OK terminal, and current-share bus

2...DC-OK terminal

4...DC-OK terminal, AC-OK terminal, current-share bus and remote on/off interface

dd:

Can be one to three letters or a number between 00 and 99 or be blank.

blank...standard variants with spring-clamp terminals

B...Unit with bracket mounting kit instead of din-rail

S...Unit with screw terminals

C...Unit with spring-clamp terminals and conformally coated pc-board

SC...Unit with screw terminals and conformally coated pc-board

00-99...Consecutive number for slightly modified variants with only minor, non-safety-relevant deviations which should also be covered by these reports.

eee:

blank...no communications provided

IOL...Unit with IO-Link interface

ETC...Unit with Ethercat interface

Additional Ratings:

Output:

DC 24-28 V, 48-41.1 A, 1152 W (below +45°C)

DC 24-28 V, 40-34.3 A, 960 W (below +60°C)

Derating linearly with 12.8 W/°C between +45°C and +60°C

Derating linearly with 24 W/°C between +60°C and +70°C

Operational temperature range: -40°C to +70°C

Additional information (if necessary)



- ☐ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- ☒ UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
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TP960.48c-dd-eee:

Input:

3AC 380-500 V, 1.96-1.5 A, 50-60 Hz

Output:

DC 48-56 V, 24-20.6 A, 1152 W (below +45°C)

DC 48-56 V, 20-17.1 A, 960 W (below +60°C)

Derating linearly with 12.8 W/°C between +45°C and +60°C

Derating linearly with 8 W/°C between +60°C and +70°C

Operational temperature range: -40°C to +70°C

Additionally evaluated to:

EN 61010-1:2010, EN 61010-1:2010/A1:2019, EN IEC 61010-2-201:2018

Additional information (if necessary)



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