

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **26 400 - 05 HH**

Company **PULS GmbH**
Arabellastraße 15
81925 München, GERMANY

Product Description **DIN-Rail Power Supplies**

Type **DIMENSION Series, SILVER LINE series, PIANO series**

Environmental Category **C, EMC2**

Technical Data /
Range of Application **DIMENSION Series:**
QS3.241: Input 100...240V AC, Output 24...28V DC, 80W;
QS5.241: Input 100...240V AC, Output 24...28V DC, 120W;
QS10.241: Input 100...240V AC, Output 24...28V DC, 240W;
QS10.121: Input 100...240V AC, Output 12...15V DC, 180W;
QS10.481: Input 100...240V AC, Output 48...56V DC, 240W;
QT20.241: Input 380...480V 3AC, Output 24...48V DC, 480W;
QT20.361: Input 380...480V 3AC, Output 36...42V DC, 480W;
QT20.481: Input 380...480V 3AC, Output 48...55V DC, 480W;
QS5.DNET: Input 100...240V AC, Output 24V DC, 91W;
QS10.DNET: Input 100...240V AC, Output 24V DC, 192W;
QS40.241: Input 100...240V AC, Output 24...28V DC, 960W;
QS40.361: Input 100...240V AC, Output 36...42V DC, 960W;
QS40.481: Input 100...240V AC, Output 48...54V DC, 960W;
DIMENSION UB-20 Series, DC-UPS:
UB20.241: DC-UPS Control Unit; Input 24V DC, Output: 20A,

Test Standard **Guidelines for the Performance of Type Approvals Part 2, Edition 2012.**

Documents **Test reports : Puls AN-347.030.00-XV, issue 1, dated 2005-02-22 with
appendices; SLG EMV, ESCS 30, Nr.005, dated 2004-12-28;
Puls AN-339.030.00-XV, issue 1, dated 2005-02-22 with appendices.**

Remarks **See page 2. This certificate is issued on the basis of GL Guidelines for the
Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.**

Valid until **2020-02-21**

Page **1 of 2**

File No. **I.M.03**

Hamburg, 2015-04-07

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Decoupling Module: YR2.DIODE: 10...60V DC, 20A;

SILVER LINE Series:

SL5.300: Input 400...500V 3AC, Output 24...28V DC, 120W;

SL10.300: Input 400...500V 3AC, Output 24...28V DC, 240W;

SL20.310: Input 400...500V 3AC, Output 24...28V DC, 480W.

PIANO Series:

PIC120.241C: Input 200...240V AC, Output 24...28V DC, 120W, DC-ok Signal;

PIC120.242C: Input 200...240V AC, Output 24...28V DC, 120W;

PIC240.241C: Input 200...240V AC, Output 24...28V DC, 240W, DC-ok Signal;

Optional with suffix -C1 with conformal coated PCBs

Optional with suffix -S1 with quick-connect spring-clamp terminals

Additional test reports:

Dry Heat: AN-347.030.00-XV, AN-339.030.00-XV, dated 2015-01-26.

Type Test Report TR2-GL06-BS1_XV_2015-02-18 with appendices.

Remarks:

- Suitability of used battery modules (not covered by this certificate) for the DC-UPS to be verified for the respective application
- DC-UPS Modules to be supplied by regulated PULS power supplies only
- De-rating depending on ambient temperature to be observed (see PULS data sheet).

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Page **2 of 2**

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