

# 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.	<b>26 400 - 05 HH</b>
Company	<b>PULS GmbH</b> <b>Arabellastraße 15</b> <b>81925 München, GERMANY</b>
Product Description	<b>DIN-Rail Power Supplies</b>
Type	<b>DIMENSION Series, SILVER LINE series, PIANO series</b>
Environmental Category	<b>C, EMC2</b>
Technical Data / Range of Application	<b>DIMENSION Series:</b> <b>QS3.241: Input 100...240V AC, Output 24...28V DC, 80W;</b> <b>QS5.241: Input 100...240V AC, Output 24...28V DC, 120W;</b> <b>QS10.241: Input 100...240V AC, Output 24...28V DC, 240W;</b> <b>QS10.121: Input 100...240V AC, Output 12...15V DC, 180W;</b> <b>QS10.481: Input 100...240V AC, Output 48...56V DC, 240W;</b> <b>QT20.241: Input 380...480V 3AC, Output 24...48V DC, 480W;</b> <b>QT20.361: Input 380...480V 3AC, Output 36...42V DC, 480W;</b> <b>QT20.481: Input 380...480V 3AC, Output 48...55V DC, 480W;</b> <b>QS5.DNET: Input 100...240V AC, Output 24V DC, 91W;</b> <b>QS10.DNET: Input 100...240V AC, Output 24V DC, 192W;</b> <b>QS40.241: Input 100...240V AC, Output 24...28V DC, 960W;</b> <b>QS40.361: Input 100...240V AC, Output 36...42V DC, 960W;</b> <b>QS40.481: Input 100...240V AC, Output 48...54V DC, 960W;</b> <b>DIMENSION UB-20 Series, DC-UPS:</b> <b>UB20.241: DC-UPS Control Unit; Input 24V DC, Output: 20A,</b>
Test Standard	<b>Guidelines for the Performance of Type Approvals Part 2, Edition 2012.</b>
Documents	<b>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.</b>
Remarks	<b>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.</b>

Valid until **2020-02-21**

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

**Hamburg, 2015-04-07**

Type Approval Symbol



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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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