



Certificate of Compliance

Certificate: 2285488

Master Contract: 182790

Project: 2424161

Date Issued: May 13, 2011

Issued to: PULS GmbH

Arabellastr. 15

Munich, 81925

Germany

Attention: Michaela Zielke

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



D. Simpson Certifier

Issued by: D. Simpson Certifier

PRODUCTS

CLASS 5318 01 - POWER SUPPLIES - For Hazardous Locations

CLASS 5318 81 - POWER SUPPLIES - For Hazardous Locations - Certified to U.S. Standards

Class I, Division 2, Groups A, B, C and D

Din Rail Component Type Switching Mode Power Supply, Class I

Models: QS3.241 (RPS80EEC), QS5.241 (RPS120EEC), QS5.241-C1 (RPS120EEC (CC)), QS5.DNET, QS10.121, QS10.241, QS10.241-C1, QS10.301, QS10.481, QS10.DNET, QS20.241, QS20.241-C1, QS20.244, QS20.361, QS20.481, suffix -A1 optional for models with 2 layer coating; Temperature Code T3/T4.

Ratings:

QS3.241 (RPS80EEC) and QS3.241-A1

Input: 100-240Vac $\pm 15\%$, 50-60Hz, 1.8-1.0A

Output: 24-28Vdc, 3.4-3.0A



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QS5.241 (RPS120EEC) and QS5.241-C1 (RPS120EEC (CC)) and QS5.241-A1

Input: 100-240Vac +10%/-15%, 50-60Hz, 1.4-0.65A

Output: 24-28Vdc, 5.0-4.5A

QS5.DNET and QS5.DNET-A1

Input: 100-240Vac +10%/-15%, 50-60Hz; 1.1-0.5A

Output: 24Vdc, 3.8A

QS10.121 and QS10.121-A1

Input: 100-240Vac \pm 15%, 50-60Hz; 2.1-0.9A

Output: 12-15Vdc, 15.0-12.0A

QS10.241 and QS10.241-A1 and QS10.241-C1

Input: 100-240Vac \pm 15%, 50-60Hz; 2.8-1.2A

Output: 24-28Vdc, 10.0-9.0A

QS10.301 and QS10.301-A1

Input: 100-240Vac \pm 15%, 50-60Hz; 2.8-1.2A

Output: 28-32Vdc, 8.6-7.5A

QS10.481 and QS10.481-A1

Input: 100-240Vac \pm 15%, 50-60Hz; 2.8-1.2A

Output: 48-56Vdc, 5.0-4.3A



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QS10.DNET and QS10.DNET-A1

Input: 100-240Vac $\pm 15\%$, 50-60Hz; 2.3-1.0A

Output: 24Vdc, 8.0A

QS20.241 and QS20.241-A1 and QS20.241-C1

Input: 100-240Vac $\pm 15\%$, 50-60Hz, 5.4-2.4A

Output: 24-28Vdc, 20.0-17.1A

QS20.244 and QS20.244-A1

Input: 200-240Vac $\pm 15\%$, 50-60Hz, 4.8A

Output: 24-28Vdc, 20.0-17.1A

QS20.361 and QS20.361-A1

Input: 100-240Vac $\pm 15\%$, 50-60Hz, 5.4-2.4A

Output: 36-42Vdc, 13.3-11.4A

QS20.481 and QS20.481-A1

Input: 100-240Vac $\pm 15\%$, 50-60Hz, 5.4-2.4A

Output: 48-55Vdc, 10.0-8.7A

$-25^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

Conditions of Certification:

- Units were evaluated as components where the suitability of the combination must be determined in the end use product by the local authority having jurisdiction.
- A suitable mechanical, electrical and fire enclosure must be provided for the end product.



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APPLICABLE REQUIREMENTS

CSA Standard C22.2 No. 0-M1991 - General Requirements - Canadian Electrical Code Part II

CAN/CSA-C22.2 No. 60950-1-03 - Information Technology Equipment – Safety – Part 1: General Requirements

CSA-C22.2 No. 107.1-01 - General Use Power Supplies

CSA Standard C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

UL Std. 60950-1 (1st Edition) - Information Technology Equipment – Safety – Part 1: General Requirements

ANSI/ISA-12.12.01-2007 - Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations



Certificate of Compliance

Certificate: 2413814

Master Contract: 182790

Project: 2702461

Date Issued: February 25, 2014

Issued to: PULS GmbH

Arabellastr. 15
Munich, 81925
Germany
Attention: Michael Raspotnig

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Blake Williams

Issued by: Blake Williams

PRODUCTS

CLASS 5318 01 - POWER SUPPLIES - For Hazardous Locations

CLASS 5318 81 - POWER SUPPLIES - For Hazardous Locations - Certified to U.S. Standards

Class I, Division 2, Groups A, B, C and D, Temperature code T4

Ta: -25°C to +60°C

-40°C to +60°C

-40°C to +70°C

Redundancy modules for built-in use (DIN rail)



Certificate: 2413814

Master Contract: 182790

Project: 2702461

Date Issued: February 25, 2014

Model	Input	Output
MLY02.100	2x DC 12-48V +/-25% 2x 0-5A	Input voltage - 0,9V; 0-10A
MLY10.241	2x DC 12-48V +/-25% 2x 0-5A	Input voltage - 0,9V; 0-10A
YR2.DIODE	2x DC 12-48V +/-25% 2x 0-10A	Input voltage - 0,9V; 0-20A
YRM2.DIODE	2x DC 24-48V +/-25% 2x 0-10A	Input voltage - 0,9V; 0-20A
YR40.241	2x DC 12-28V +/-30% 2x 0-20A	Input voltage - 0,1V; 0-40A
YR80.241	2x DC 12-28V +/-30% 2x 0-40A	Input voltage - 0,1V; 0-80A
YR40.242	2x DC 12-28V +/-30%; 2 x 0-20A	Input voltage - 0,1V; 0-40A
YR40.245	1x DC 12-28V +/-30%; 0-40A	Input voltage - 0,1V; 0-40A
YR40.482	2x DC 24-56V +/-15%; 0-20A	Input voltage - 0,1V; 0-40A
YR80.242	2x DC 12-28V +/-30%; 0-40A	Input voltage - 0,1V; 0-80A

Notes:

- Units were evaluated as components where the suitability of the combination must be determined in the end use product by the local authority having jurisdiction.
- A suitable mechanical, electrical and fire enclosure must be provided for the end product which provides a minimum protection of IP54 and can only be opened with the use of a tool.
- Suitable for use in Class I, Zone 2
- YR2.DIODE, YRM2.DIODE; $-25^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$
- YR40.241 and YR80.241; $-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
- MLY02.100, MLY10.241, YR40.242, YR40.245, YR40.482, YR80.242; $-40^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No. 0-10 - General Requirements - Canadian Electrical Code Part II

CAN/CSA-C22.2 No. 60950-1-07 - Information Technology Equipment – Safety – Part 1: General Requirements.

CSA Standard C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

UL Std. 60950-1 (2nd Edition) - Information Technology Equipment – Safety – Part 1: General Requirements.

ANSI/ISA–12.12.01–2013 - Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations