Certificate of Compliance

Certificate: 2492229 **Master Contract:** 182790

Project: 2492229 **Date Issued:** November 21, 2012

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.

Chris Burchett

Issued by: Chris Burchett

PRODUCTS

CLASS 5318 01 - POWER SUPPLIES - For Hazardous Locations
CLASS 5318 81 - POWER SUPPLIES - For Hazardous Locations - Certified to U.S. Standards

CLASS 5318 01 – POWER SUPPLIES - For Hazardous Locations

CLASS 5318 81 – POWER SUPPLIES - For Hazardous Locations - Certified to US Standards

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

ML-Series and RPS-Series DIN Rail Mount Power Supplies: Models / Ratings / Ambient / T-Code as below:

Model No.	Input Voltage (V)	Output Voltage (VDC)	Output Current (20°C Ambient)	Operating Temperature Range	Input Frequency (Hz)	T-Code
ML15.051	AC100-240V -15%/+10%,	5 – 5.5V	3A	-10°C to +60°C	50-60Hz, DC	T4

	DC110-300V -20%/+25%					
ML15.121	AC100-240V -15%/+10%, DC110-300V -20%/+25%	12 - 15V	1.3A	-10°C to +60°C	50-60Hz, DC	T4
ML15.241	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 - 28V	0.63A	-10°C to +60°C	50-60Hz, DC	T4
RPS15	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 - 28V	0.63A	-10°C to +60°C	50-60Hz, DC	T4
ML30.100	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 – 28V	1.3A, 30W	-10°C to +60°C	50-60Hz, DC	T4
RPS30	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 – 28V	1.3A, 30W	-10°C to +60°C	50-60Hz, DC	T4
ML30.101	AC100-240V -15%/+10%, DC110-300V -20%/+25%	5 – 5.5V	5A, 25W	-10°C to +60°C	50-60Hz, DC	T4
ML30.102	AC100-240V -15%/+10%, DC110-300V -20%/+25%	10 – 12V	3A, 30W	-10°C to +60°C	50-60Hz, DC	T4
ML30.241	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 – 28V	1.3A, 30W	-10°C to +60°C	50-60Hz, DC	T4
ML50.100	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 – 28V	2.1A, 50W	-10°C to +60°C	50-60Hz, DC	T3
ML50.101	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 – 28V	2.1A, 50W	-10°C to +60°C	50-60Hz, DC	T3
ML50.109	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 – 28V	2.1A, 50W	-10°C to +60°C	50-60Hz, DC	T3

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ML50.111	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 – 28V	2.1A, 50W	-10°C to +60°C	50-60Hz, DC	T3
ML50.102	AC100-240V -15%/+10%, DC110-300V -20%/+25%	12 - 15V	4.2A, 50W	-10°C to +60°C	50-60Hz, DC	T3
ML60.121	AC100-240V -15%/+10%, DC110-300V -20%/+25%	12 – 15V	4.5A, 54W	-10°C to +60°C	50-60Hz, DC	T3
ML60.122	AC100-240V -15%/+10%, DC110-300V -20%/+25%	12 – 15V	4.5A, 54W	-40°C to +60°C	50-60Hz, DC	T4
ML60.241	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 – 28V	2.5A, 60W	-10°C to +60°C	50-60Hz, DC	T4
ML60.242	AC100-240V -15%/+10%, DC110-300V -20%/+25%	24 – 28V	2.5A, 60W	-40°C to +60°C	50-60Hz, DC	T4
ML70.100	AC 100-120V / 220-240V (-15% +10%)	24 – 28V	3A, 72W	-10°C to +60°C	50-60Hz	T4
ML95.100	AC 100-120V / 220-240V (-15% +10%)	24 – 28VDC	3.95A, 95W	-10°C to +60°C	50-60Hz	T3
ML100.100	AC 100-120V / 220-240V (-15% +10%)	24 – 28VDC	4.2A, 100W	-10°C to +60°C	50-60Hz	T3

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ML100.102	AC 100-120V / 220-240V (-15% +10%)	12 – 15VDC	7.5A, 90W	-10°C to +60°C	50-60Hz	T4
ML100.109	AC 100-120V / 220-240V (-15% +10%)	24 – 28VDC	4.2A, 100W	-10°C to +60°C	50-60Hz	T3

Part Number Suffixes Applicable to all Models

-A1 Designates 1 layer of conformal coating is applied for environmental purposes not related to safety.

-C1 Designates 2 layers of conformal coating are applied for environmental purposes not related to safety.

Conditions of Certification

The Power Supply must be installed in a certified enclosure or cabinet in the final installation subject to the Authority Having Jurisdiction.

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

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

PISA protection modules: Input 24 VDC (-15%+25%), Input Current per below, Output ratings per below, Temperature Range:-25°C to +70°C, Temperature Code: T4

PISA11.401:

Maximum Input Current: 4A

Output:

Channel 1: DC 24V; 0-1A

Channel 2: DC 24V; 0-1A

Channel 3: DC 24V; 0-1A

Channel 4: DC 24V; 0-1A

PISA11.402:

Maximum Input Current: 8A

Output: Channel 1: DC 24V; 0-2A

Channel 2: DC 24V; 0-2A

Channel 3: DC 24V; 0-2A

Channel 4: DC 24V; 0-2A

PISA11.403:

Maximum Input Current: 12A

Output:

Channel 1: DC 24V; 0-3A

Channel 2: DC 24V; 0-3A

Channel 3: DC 24V; 0-3A

Channel 4: DC 24V; 0-3A

PISA11.404:

Maximum Input Current: 16A

Output:

Channel 1: DC 24V; 0-4A

Channel 2: DC 24V; 0-4A

Channel 3: DC 24V; 0-4A

Channel 4: DC 24V; 0-4A

PISA11.406:

Maximum Input Current: 20A

Output:

Channel 1: DC 24V; 0-6A

Channel 2: DC 24V; 0-6A

Channel 3: DC 24V; 0-6A

Channel 4: DC 24V; 0-6A

Channel 1+2+3+4: max. 20A

PISA11.410:

Maximum Input Current: 20A

Output:

Channel 1: DC 24V; 0-10A

Channel 2: DC 24V; 0-10A

Channel 3: DC 24V; 0-10A

Channel 4: DC 24V; 0-10A

Channel 1+2+3+4: max. 20A

PISA11.203206:

Maximum Input Current: 18A

Output:

Channel 1: DC 24V; 0-3A

Channel 2: DC 24V; 0-3A

Channel 3: DC 24V; 0-6A

Channel 4: DC 24V; 0-6A

PISA11.206212:

Maximum Input Current: 20A

Output:

Channel 1: DC 24V; 0-6A

Channel 2: DC 24V; 0-6A

Channel 3: DC 24V; 0-12A

Channel 4: DC 24V; 0-12A

Channel 1+2+3+4: max. 20A

PISA11.CLASS2:

Maximum Input Current: 15A

Output:

Channel 1: DC 24V; 3.7A; <100W

Channel 2: DC 24V; 3.7A; <100W

Channel 3: DC 24V; 3.7A; <100W

Channel 4: DC 24V; 3.7A; <100W

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APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 60950-1-07 +Am1 - Information Technology Equipment – Safety – Part 1: General Requirements

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

CSA Standard C22.2 No.0.4-M2004 - Bonding of Electrical Equipment

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

ANSI/UL 60950-1 (2nd Edition) + Am1 - Information Technology Equipment – Safety – Part 1: General Requirements

ANSI/ISA–12.12.01–2011 - Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

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MARKINGS

Product markings shall be in accordance with the related standards. In addition, it shall be the responsibility of the manufacturer to provide additional markings on the product to comply with the requirements of the local regulatory authorities. For example, in Canada, any caution and warning markings must be provided in French and English.

(1) Submittor's name, trademark, or the CSA file number (adjacent the CSA Mark).

(2) Catalogue / Model designation.

(3) Complete electrical rating (amps, hertz, and volts [input / output])

(4) Date code / Serial number traceable to month and year of manufacture.

(5) Hazardous Location designations. (Class I, Division 2, Groups A, B, C and D, as applicable).

(6) Temperature code T3/T4

(7) Maximum ambient. (As applicable)

(8) The CSA Mark.

(9) The following cautions:

WARNING - DO NOT OPERATE THE VOLTAGE ADJUSTMENT OR S/P JUMPER UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS

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METHOD OF MARKING

CSA or UL Approved adhesive nameplate (suitable for surface to which it is applied).

Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
2492229	November 21, 2012	(EDM349: 1 of 1 CSA) CSAc-us Certification of ML Series and PISA Series for CL I, Div 2 Grps ABCD per ATEX Report and already Ord Loc Certified.