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Certification Record

Customer	Class	File Number
PULS GmbH Arabellastr. 15, Munich 81925 Germany	5318-81 POWER SUPPLIES-For Hazardous Locations - Certified to U.S. Standards	095515_0_000

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

Din Rail Component type switching mode power supply, class I

Models: CS3.241, CS5.241, CS5.241-S1, CS5.243, CS5.244, CS10.241, CS10.241-S1, CS10.242, CS10.243, CS10.244, CS10.481; Temperature code T3

Ratings:

Model	Input	Output
CS3.241	100-240Vac; 50-60Hz; 1.4A	24-28Vdc; 3.3-2.7A (-25°C≤Ta ≥60°C)
CS5.241	100-120Vac/200-240Vac; 50-60Hz; 2.6-1.4A	24-28Vdc; 6-5.1A (-25°C≤Ta ≥45°C) 5-4.3A (-25°C≤Ta ≥60°C)
CS5.241-S1	100-120Vac/200-240Vac; 50-60Hz; 2.6-1.4A	24-28Vdc; 6-5.1A (-25°C≤Ta ≥45°C) 5-4.3A (-25°C≤Ta ≥60°C)
CS5.243	100-120Vac; 50-60Hz; 2.6A	24-28Vdc; 6-5.1A (-10°C≤Ta ≥45°C) 5-4.3A (-10°C≤Ta ≥60°C)
CS5.244	200-240Vac; 50-60Hz; 1.4A	24-28Vdc; 6-5.1A (-10°C≤Ta ≥45°C) 5-4.3A (-10°C≤Ta ≥60°C)
CS10.241	100-120Vac/200-240Vac; 50-60Hz; 5.0-2.7A	24-28Vdc; 12-10.3A (-25°C≤Ta ≥45°C) 10-8.6A (-25°C≤Ta ≥60°C)
CS10.241-S1	100-120Vac/200-240Vac; 50-60Hz; 5.0-2.7A	24-28Vdc; 12-10.3A (-25°C≤Ta ≥45°C) 10-8.6A (-25°C≤Ta ≥60°C)
CS10.242	100-120Vac/200-240Vac; 50-60Hz; 5.0-2.4A	24-28Vdc; 12-10.3A (-25°C≤Ta ≥45°C) 10-8.6A (-25°C≤Ta ≥60°C)
CS10.243	100-120Vac; 50-60Hz; 5A	24-28Vdc; 12-10.3A (0°C≤Ta ≥45°C) 10-8.6A (0°C≤Ta ≥60°C)
CS10.244	200-240Vac; 50-60Hz; 2.7A	24-28Vdc; 12-10.3A (0°C≤Ta ≥45°C) 10-8.6A (0°C≤Ta ≥60°C)

CS10.481	100-120Vac/200-240Vac; 50-60Hz; 5.0-2.7A	48-52Vdc; 6-5.5A (-25°C≤Ta ≥45°C) 5-4.6A (-25°C≤Ta ≥60°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

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:

Model	Input	Output
QS3.241 (RPS80EEC)	100-240Vac ±15%, 50-60Hz, 1.8-1.0A	24-28Vdc, 3.4-3.0A
QS3.241-A1	100-240Vac ±15%, 50-60Hz, 1.8-1.0A	24-28Vdc, 3.4-3.0A
QS5.241 (RPS120EEC)	100-240Vac +10%/-15%, 50-60Hz, 1.4-0.65A	24-28Vdc, 5.0-4.5A
QS5.241-C1 (RPS120EEC (CC))	100-240Vac +10%/-15%, 50-60Hz, 1.4-0.65A	24-28Vdc, 5.0-4.5A
QS5.241-A1	100-240Vac +10%/-15%, 50-60Hz, 1.4-0.65A	24-28Vdc, 5.0-4.5A
QS5.DNET	100-240Vac +10%/-15%, 50-60Hz; 1.1-0.5A	24Vdc, 3.8A
QS5.DNET-A1	100-240Vac +10%/-15%, 50-60Hz; 1.1-0.5A	24Vdc, 3.8A
QS10.121	100-240Vac ±15%, 50-60Hz; 2.1-0.9A	12-15Vdc, 15.0-12.0A
QS10.121-A1	100-240Vac ±15%, 50-60Hz; 2.1-0.9A	12-15Vdc, 15.0-12.0A
QS10.241	100-240Vac ±15%, 50-60Hz; 2.8-1.2A	24-28Vdc, 10.0-9.0A
QS10.241-A1	100-240Vac ±15%, 50-60Hz; 2.8-1.2A	24-28Vdc, 10.0-9.0A
QS10.241-C1	100-240Vac ±15%, 50-60Hz; 2.8-1.2A	24-28Vdc, 10.0-9.0A
QS10.301	100-240Vac ±15%, 50-60Hz; 2.8-1.2A	28-32Vdc, 8.6-7.5A
QS10.301-A1	100-240Vac ±15%, 50-60Hz; 2.8-1.2A	28-32Vdc, 8.6-7.5A
QS10.481	100-240Vac ±15%, 50-60Hz; 2.8-1.2A	48-56Vdc, 5.0-4.3A
QS10.481-A1	100-240Vac ±15%, 50-60Hz; 2.8-1.2A	48-56Vdc, 5.0-4.3A
QS10.DNET	100-240Vac ±15%, 50-60Hz; 2.3-1.0A	24Vdc, 8.0A
QS10.DNET-A1	100-240Vac ±15%, 50-60Hz; 2.3-1.0A	24Vdc, 8.0A
QS20.241	100-240Vac ±15%, 50-60Hz, 5.4-2.4A	24-28Vdc, 20.0-17.1A
QS20.241-A1	100-240Vac ±15%, 50-60Hz, 5.4-2.4A	24-28Vdc, 20.0-17.1A
QS20.241-C1	100-240Vac ±15%, 50-60Hz, 5.4-2.4A	24-28Vdc, 20.0-17.1A
QS20.244	200-240Vac ±15%, 50-60Hz, 4.8A	24-28Vdc, 20.0-17.1A
QS20.244-A1	200-240Vac ±15%, 50-60Hz, 4.8A	24-28Vdc, 20.0-17.1A
QS20.361	100-240Vac ±15%, 50-60Hz, 5.4-2.4A;	36-42Vdc, 13.3-11.4A
QS20.361-A1	100-240Vac ±15%, 50-60Hz, 5.4-2.4A;	36-42Vdc, 13.3-11.4A
QS20.481	100-240Vac ±15%, 50-60Hz, 5.4-2.4A;	48-55Vdc, 10.0-8.7A
QS20.481-A1	100-240Vac ±15%, 50-60Hz, 5.4-2.4A;	48-55Vdc, 10.0-8.7A

-25°C ≤ Ta ≥ +60°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.

Class I, Division 2, Groups A, B, C and D, Temperature code T4
Ta: -25°C≤Ta≤60°C
-40°C≤Ta≤60°C
-40°C≤Ta≤70°C

Redundancy modules for built-in use (DIN rail)

Model	**Input Voltage**	**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 24-28V +/-30% 2x 0-20A	Input voltage - 0,1V; 0-40A
YR80.241	2x DC 24-28V +/-30% 2x 0-40A	Input voltage - 0,1V; 0-80A

NOTE:

- 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°C≤Ta ≤60°C
- YR40.241 and YR80.241; -40°C≤Ta≤70°C
- MLY02.100 and MLY10.241; -40°C≤Ta≤60°C

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

CT-Series Power Supplies: CT5.121, CT5.241, CT10.241, CT10.481
QT-Series Power Supplies: QT20.241, QT20.361, QT20.481, QT40.241, QT40.481

Temperature Class T4: CT5.241, CT10.481, QT20.241, QT20.481
Temperature Class T3: CT5.121, CT10.241, QT20.361, QT40.241, QT40.481

Power Supply (2 and 3-phase, built-in, DIN rail), Ambient Temperature -25° C to +45/+60° C, and Temperature Code T3/T4 Rated:

Ratings					
Model No.	**Input Voltage (V)**	**Input current (A)**	**Input Frequency (Hz)**	**Output Voltage (V)**	**Output Current (A at xx°C Ambient)**
CT5.121	2 x 380-480Vac	0,70	50-60Hz	12 – 15	8,0 – 6,4 (60°C)
CT5.241		0,90		24 – 28	5,0 – 4,3 (60°C) 6,0 – 5,1 (45°C)
CT10.241	3 x 380-480Vac			24 – 28	10,0 – 8,6 (60°C) 12,0 – 10,3 (45°C)
CT10.481				48 – 56	5,0 – 4,3 (60°C) 6,0 – 5,2 (45°C)
QT20.241	3 x 380-480Vac	0,90 - 0,65		24 – 28	20,0 – 17,0 (60°C)
QT20.361				36 – 42	13,3 – 11,4 (60°C)
QT20.481				48-55	10,0 – 8,7 (60°C)
QT40.241		1,80 – 1,30		24 – 28	40,0 – 34,3 (60°C)
QT40.481				48 – 54	20,0 – 27,8 (60°C)

Part Number Suffixes Applicable to all Models

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-A1 Designates 1 layers of conformal coating are applied for environmental purposes not related to safety.
-C1 Designates 2 layer of conformal coating are applied for environmental purposes not related to safety.

Conditions of Certification

The Power Supply must be installed in an IP54 enclosure or cabinet in the final installation. The enclosure / cabinet must comply with the requirements of CAN/CSA E60079-15:2010.

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	Output Current	Operating Temperature	Input Frequency	T-Code

		(VDC)	(20°C Ambient)	Range	(Hz)	
ML15.051	AC100-240V -15%/+10%, DC110-300V -20%/+25%	5 – 5.5V	3A	-10°C to +60°C	50-60Hz, DC	T4
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
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%,	12 – 15V	4.5A, 54W	-10°C to +60°C	50-60Hz, DC	T3

	DC110-300V -20%/+25%					
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
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

ML Series 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 (ML Series)

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

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

Ex nA nC IIC T3 Gc

Class I, Zone 2, AEx nA nC IIC T3 Gc

CPS-Series Power Supplies: CPS20.241, CPS20.121, CPS20.361, CPS20.481, CPS20.241D1, and CPS20.481-D1

CPS20.241:

Input 100-240V; 50-60Hz; 6,4-2,7A

Output 24-28Vdc; 20,0-17,1A (max. 60°C ambient)

24-28Vdc; 24,0-20,6A (max. 45°C ambient)

CPS20.121:

Input 100-240V; 50-60Hz; 4,9-2,2A

Output 12-15Vdc; 30A (max. 60°C ambient)

CPS20.361:

Input 100-240V; 50-60Hz; 6,4-2,7A

Output 36-42Vdc; 13,3-11,4A (max. 60°C ambient)
36-42Vdc; 16,0-13,7A (max. 45°C ambient)

CPS20.481:
Input 100-240V; 50-60Hz; 6,4-2,7A
Output 48-56Vdc; 10,0-8,6A (max. 60°C ambient)
48-56Vdc; 12,0-10,3A (max. 45°C ambient)

CPS20.241-D1:
Input 110-300Vdc; 6,2-2,3A
Output 24-28Vdc; 20,0-17,1A (max. 60°C ambient)
24-28Vdc; 24,0-20,6A (max. 45°C ambient)

CPS20.481-D1:
Input 110-300Vdc; 6,2-2,3A
Output 48-56Vdc; 10,0-8,6A (max. 60°C ambient)
48-56Vdc; 12,0-10,3A (max. 45°C ambient)

Class I, Division 2, Groups A, B, C, and D
Ex nA IIC T3 Gc
Class I, Zone 2, AEx nA IIC T3 Gc

SLA-Series Power Supplies: SLA3.100

SLA3.100:
Input 100-120/220-240V; 50-60Hz; 2,0/0,9A
Output 30,5V; 2,8A

Part Number Suffixes Applicable to all Models

-C1 Designates Optional Coating of PCB.

- The CPS20.xxx power supplies are intended for universal use, the SLA3.100 is specially made to supply the AS-Interface field bus system. The output of the SLA3.100 power supply is inductive and is not suitable for other applications.
- Additionally the equipment was tested for 70°C ambient temperature with output power derating for temperature class T3. This ambient temperature is not marked on the equipment as nominal value. The output is limited to the following values at temperatures > 60°C.

Conditions of Certification

The Power Supply must be installed in an IP54 enclosure or cabinet in the final installation. The enclosure / cabinet must comply with the requirements of EN 60079-15:2010 and/or IEC 60079-15 – Edition 4.

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