

(1) EC-Certificate of Conformity



(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres –
Directive 94/9/EC

(3) EC-Certificate of Conformity Number:

EPS 11 ATEX 1 327 X

Revision: 1

(4) Equipment: ML-series; PISA-series (see page 3-4)

(5) Manufacturer: PULS GmbH

(6) Address: Arabellastr. 15, 81925 München, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies, based on a voluntary testing, that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 11TH0140.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:


EN 60079-0:2012 + A11:2013


EN 60079-15:2010

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.


(11) This EC-Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:

 II 3G Ex nA IIC T4 Gc

 II 3G Ex nA nC IIC T4 Gc

 II 3G Ex nA IIC T3 Gc

 II 3G Ex nA nC IIC T3 Gc

Certification department of explosion protection

Nürnberg, April 14, 2015



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- (13) **Annexe**
- (14) **EC-Certificate of Conformity EPS 11 ATEX 1 327 X**
- (15) Description of equipment:

ML-series: The ML-series is a power supply series for connection to single phase mains. The series has an output voltage range from 5Vdc to 28Vdc and power range from 15W to 100W. The power supplies are provided with spring-terminals, LED for functional indication and adjustment of the output voltage on the front side. The output circuit of the series is galvanically separated from the mains circuit.

PISA-series: The PISA protection modules distribute the current of a large power source to multiple lower current output channels and therefore allows for smaller wires to be used. Furthermore, it permits only so much current, on the outputs that the input voltage of the unit (which corresponds to the output voltage of the power supply) does not fall below 21V. This ensures a reliable supply voltage for sensitive equipment, such as PLCs, controls or sensors, when they are connected directly to the same power supply as the PISA protection module.

Electric data: See ratings on page 3-4.

- (16) Test report: 11TH0140
- (17) Special conditions for safe use:

The equipment must be installed in an enclosure or cabinet rated min. IP54. The enclosure / cabinet must comply with the requirements of EN 60079-15:2010.

PISA-series only: a pluggable input connector is provided on the front side of the unit. This connection does not fulfil the requirements of 7.3.5 of EN 60079-15:2010. Therefore the connection / disconnection / operation of this connector in areas with explosive atmospheres is prohibited by the manual. This connector may be used in the end-product, if the connection is additionally fixed and if the requirements of 7.3.5 are fulfilled.

De-ratings are not covered by the investigation (e. g. operation above nominal ambient temperature with reduced output power).

- (18) Essential health and safety requirements:

Met by standards.



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Datasheet 1

EC-Certificate of Conformity EPS 11 ATEX 1 327 x

Ratings – ML-series:

ML15.051-A1	100-240Vac; 50-60Hz; 0,3A	5,0-5,5Vdc; 3,0A; 15W
ML15.121-A1	100-240Vac; 50-60Hz; 0,3A	12-15Vdc; 1,3-1,0A; 15W
ML15.241-A1	100-240Vac; 50-60Hz; 0,3A	24-28Vdc; 0,63-0,54A; 15W
RPS 15-A1	100-240Vac; 50-60Hz; 0,3A	24-28Vdc; 0,63-0,54A; 15W
ML30.100-A1	100-240Vac; 50-60Hz; 0,6A	24-28Vdc; 1,3A; 30W
ML30.101-A1	100-240Vac; 50-60Hz; 0,5A	5,0-5,5Vdc; 5,0; 25W
ML30.102-A1	100-240Vac; 50-60Hz; 0,6A	10-12Vdc; 3,0A; 30W
RPS 30-A1	100-240Vac; 50-60Hz; 0,6A	24-28Vdc; 1,3A; 30W
ML30.241-A1	100-240Vac; 50-60Hz; 0,6A	24-28Vdc; 1,3-1,1A; 30W
ML50.100-A1	100-240Vac; 50-60Hz; 1,0A	24-28Vdc; 2,1A; 50W
ML50.101-A1	100-240Vac; 50-60Hz; 1,0A	24-28Vdc; 2,1A; 50W
ML50.102-A1	100-240Vac; 50-60Hz; 1,0A	12-15Vdc; 4,2A; 50W
ML60.121-A1	100-240Vac; 50-60Hz; 1,1A	12-15Vdc; 4,5-3,6A; 54W
ML60.122-A1	100-240Vac; 50-60Hz; 1,1A	12-15Vdc; 4,5-3,6A; 54W
ML60.241-A1	100-240Vac; 50-60Hz; 1,3A	24-28Vdc; 2,5-2,1A; 60W
ML60.242-A1	100-240Vac; 50-60Hz; 1,3A	24-28Vdc; 2,5-2,1A; 60W
ML70.100-A1	100-120/200-240Vac; 50-60Hz; 1,6/0,8A	24-28Vdc; 3,0A; 70W
ML95.100-A1	100-120/200-240Vac; 50-60Hz; 2,1/1,0A	24-28Vdc; 3,95A; 95W
ML100.100-A1	100-120/200-240Vac; 50-60Hz; 2,1/1,0A	24-28Vdc; 4,2A; 100W
ML100.102-A1	100-120/200-240Vac; 50-60Hz; 2,1/1,0A	12-15Vdc; 7,5A; 90W

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Datasheet 2

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Ratings – PISA-series:

PISA11.401	Input: DC 24V(-15% +25%); 4A Output: Channel 1: DC 24V; 0-1A Channel 3: DC 24V; 0-1A	Channel 2: DC 24V; 0-1A Channel 4: DC 24V; 0-1A
PISA11.402	Input: DC 24V(-15% +25%); 8A Output: Channel 1: DC 24V; 0-2A Channel 3: DC 24V; 0-2A	Channel 2: DC 24V; 0-2A Channel 4: DC 24V; 0-2A
PISA11.403	Input: DC 24V(-15% +25%); 12A Output: Channel 1: DC 24V; 0-3A Channel 3: DC 24V; 0-3A	Channel 2: DC 24V; 0-3A Channel 4: DC 24V; 0-3A
PISA11.404	Input: DC 24V(-15% +25%); 16A Output: Channel 1: DC 24V; 0-4A Channel 3: DC 24V; 0-4A	Channel 2: DC 24V; 0-4A Channel 4: DC 24V; 0-4A
PISA11.406	Input: DC 24V(-15% +25%); 20A Output: Channel 1: DC 24V; 0-6A Channel 3: DC 24V; 0-6A Channel 1+2+3+4: max. 20A	Channel 2: DC 24V; 0-6A Channel 4: DC 24V; 0-6A
PISA11.410	Input: DC 24V(-15% +25%); 20A Output: Channel 1: DC 24V; 0-10A Channel 3: DC 24V; 0-10A Channel 1+2+3+4: max. 20A	Channel 2: DC 24V; 0-10A Channel 4: DC 24V; 0-10A
PISA11.203206	Input: DC 24V(-15% +25%); 18A Output: Channel 1: DC 24V; 0-3A Channel 3: DC 24V; 0-6A	Channel 2: DC 24V; 0-3A Channel 4: DC 24V; 0-6A
PISA11.206212	Input: DC 24V(-15% +25%); 20A Output: Channel 1: DC 24V; 0-6A Channel 3: DC 24V; 0-12A Channel 1+2+3+4: max. 20A	Channel 2: DC 24V; 0-6A Channel 4: DC 24V; 0-12A
PISA11.CLASS2	Input: DC 24V(-15% +25%); 15A Output: Channel 1: DC 24V; 3.7A Channel 3: DC 24V; 3.7A (each Channel < 100W)	Channel 2: DC 24V; 3.7A Channel 4: DC 24V; 3.7A

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