



Certificate of Compliance

Certificate: 70039871

Master Contract: 182790

Project: 70039871

Date Issued: January 20, 2016

Issued to: PULS GmbH
Arabellastr. 15
Munich, 81925
GERMANY

Attention: Mr. Matthias Geiselmann

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.



Issued by: Ron Wachowicz
Ron Wachowicz

PRODUCTS

CLASS - C531801 - POWER SUPPLIES-For Hazardous Locations

CLASS - C531881 - POWER SUPPLIES-For Hazardous Locations - Certified to U.S. Standards

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

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

Uninterruptable Power Supplies:

Model	Ratings
UB10.241	Input: DC 24V (-20%/+25%), max. 17A Output in power supply mode: Input voltage - 0.3V, 15.0A (below +60°C) Input voltage - 0.3V, 11.3A (at +70°C) Output in battery mode: 22.3Vdc, 10A (below +60°C) 22.3Vdc, 7.5A (at +70°C) Short-term, up to 5s: 22.3Vdc, 15A (below +70°C) De-rate linearly between +60°C and +70°C



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	<p>Battery: Use a 12V VRLA battery between 3.9 and 40Ah Ambient temperature range: -25°C to +70°C T-Code: T3</p>
UB10.242	<p>Input: DC 24V (-20%/+25%), max. 18A Output in power supply mode: Input voltage - 0.3V, 15.0A (max. +50°C) Output in battery mode: 22.3Vdc, 10A (max. +50°C) Short-term, up to 5s: 22.3Vdc, 15A Battery: Use a 12V VRLA battery between 17 and 40Ah Ambient temperature range: -25°C to +50°C T-Code: T3</p>
UB10.245	<p>Input: DC 24V (-20%/+25%), max. 17A Outputs in power supply mode: Max. 360W at +50°C or 180W at +70°C for both outputs Output 1: Input - 0.3V, 15A (below +50°C) Input - 0.3V, 10A (at +70°C) Output 2: 12V, 5A (below +50°C) 12V, 4A (at +70°C) Outputs in battery mode: Max. 240W at 50°C or 120W at 70°C for both outputs Output 1: 22.3V, 10A (below +50°C) 22.3V, 7.5A (at +70°C) Short-term, up to 5s: 22.3V, 15A (at +70°C) Output 2: 12V, 5A (below +50°C) 12V, 4A (at +70°C) Short-term, up to 5s: 12V, 5A (at +70°C) De-rate linearly between +50°C and +70°C Battery: Use a 12V VRLA battery between 3.9 and 40Ah Ambient temperature range: -25°C to +70°C T-Code: T3</p>
UBC10.241 and UBC10.241-N1	<p>Input: DC 24V (-20%/+25%), max. 17A Outputs in power supply mode: Input - 0.3V, 15A (max. +40°C) Outputs in battery mode: 22.3V, 10A (max. +40°C) Short-term, up to 5s: 22.3V, 15A Ambient temperature range: 0°C to +40°C T-Code: T3</p>
UB20.241	<p>Input: DC 24V (±25%), max. 28A Output in power supply mode:</p>



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	<p>Input voltage - 0.15V, 25.0A (below +60°C) Input voltage - 0.15V, 18.8A (at +70°C) Short-term, up to 5s: 30.0A (at +70°C) Output in battery mode: Selectable: 22.5V, 24.0V, 25.0V or 26.0V Max. 20A or 468W (below +60°C) Max. 15A or 351W (at +70°C) Short-term, up to 4s: 50% current reserves De-rate linearly between +60°C and +70°C Battery: Use a 24V VRLA battery module between 3.9 and 150Ah. Ambient temperature range: -40°C to +70°C T-Code: T4</p>
UC10.241	<p>Input: DC 24V (-20%/+25%), max. 17A Output in power supply mode: Input voltage - 0.3V, 15.0A (max. +60°C) Output in capacitor mode: 22.3Vdc, 15A (max. +60°C) Back-up time: Typ. 16.5s at 10A or 9.0s at 15A Ambient temperature range: -40°C to +60°C T-Code: T4</p>
UC10.242	<p>Input: DC 24V (-20%/+25%), max. 17A Output in power supply mode: Input voltage - 0.3V, 15.0A (max. +60°C) Output in capacitor mode: 22.3Vdc, 15A (max. +60°C) Back-up time: Typ. 33s at 10A or 18s at 15A Ambient temperature range: -40°C to +60°C T-Code: T4</p>

Battery Modules:

Model	Ratings
UZK12.071 and UZO12.07	<p>Nominal battery voltage and capacity: 12Vdc, 7Ah Ambient Temperature ranges: For charging: -10°C to +40°C For discharging: -15°C to +50°C T-Code: T4</p>
UZK12.261 and UZO12.26	<p>Nominal battery voltage and capacity: 12Vdc, 26Ah Ambient Temperature ranges: For charging: -15°C to +50°C For discharging: -20°C to +60°C T-Code: T3</p>
UZK24.071 and UZO24.071	<p>Nominal battery voltage and capacity: 24Vdc, 7Ah</p>



Certificate: 70039871

Project: 70039871

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	Ambient Temperature ranges: For charging: -10°C to +40°C For discharging: -15°C to +50°C T-Code: T4
UZK24.121 and UZO24.121	Nominal battery voltage and capacity: 24Vdc, 12Ah Ambient Temperature ranges: For charging: -10°C to +40°C For discharging: -15°C to +50°C T-Code: T4

Conditions of Certification:

- The equipment shall be installed in a suitable mechanical, electrical and fire enclosure for the end use application.
- The equipment’s controls and switches shall not be operated when an explosive atmosphere may be present.
- The equipment is evaluated as a component where the suitability for use must be determined by the local authority having jurisdiction in the end use application.
- Battery modules may be operated in any position, except they shall not be operated upside down. DIN-Rail modules shall be operated in standard vertical orientation (terminals on top/bottom) only.

APPLICABLE REQUIREMENTS

- CAN/CSA-C22.2 No. 60950-1-07+Am1 - 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
- ANSI/UL 60950-1 (2nd Edition)+Am1 - Information Technology Equipment – Safety – Part 1: General Requirements
- ANSI/ISA-12.12.01, 2015 - Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

MARKINGS

See certification report for complete details.



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
70039871	2016-01-20	New Class I, Division 2, Groups ABCD certification for the UPS System model series UB10.24x, UB20.241, UBC10.241, UC10.24x, UZK12.xx1, UZK24.xx1 and UZS24.100 based on IECEX certification from Bureau Veritas that includes national deviations for US & CAN and UL ordinary locations certification.