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		and Report	Ę		Revised:	2012-08-20

DESCRIPTION

PRODUCT COVERED:

USR/CNR - DC-DC Converter, Models CHB100-24SYYZ, CHBXXX-48SYYZ, CHBXXX-48S05Z-5.1V. Where XXX can be 100 or 150, YY can be 25, 33, 05, 12, 15 or 24, Z can be N or blank.

ELECTRICAL RATING:

	Ing	Output(dc)		
Model	V	A	V	А
CHB150-48S25Z	36-75 or 48	2.9 or 2.1	2.5	30
CHB150-48S33Z	36-75 or 48	3.5 or 2.6	3.3	30
CHB150-48S05Z	36-75 or 48	5.1 or 3.7	5	30
CHB150-48S05z-5.1V			5.1	29.4
CHB150-48S12Z	36-75 or 48	4.9 or 3.6	12	12.5
CHB150-48S15Z	36-75 or 48	4.9 or 3.6	15	10
CHB150-48S24Z	36-75 or 48	4.9 or 3 6	24	6.25
CHB100-48S25Z	36-75 or 48	1.8 or 1.335	2.5	20
CHB100-48S33Z	36-75 or 48	2.3 or 1 72	3.3	20
CHB100-48S05Z	36-75 or 48	3.3 or 2 48	5	20
CHB100-48S05Z-5.1V		2.10	5.1	19.6
CHB100-48S12Z	36-75 or 48	3.3 or 2.442	12	8.3
CHB100-48S15Z	36-75 or 48	3.3 or 2.463	15	6.7
CHB100-48S24Z	36-75 or 48	3.3 or 2.463	24	4.17
CHB100-24S25Z	18-36 or 24	3.800 or 2.705	2.5	20
CHB100-24S33Z	18-36 or 24	4.800 or 2.480	3.3	20
CHB100-24S05Z	18-36 or 24	6.900 or 5.020	5.0	20
CHB100-24S12Z	18-36 or 24	6.800 or 4.880	12.0	8.3
CHB100-24S15Z	18-36 or 24	6.800 or 4.925	15.0	6.7
CHB100-24S24Z	18-36 or 24	6.800 or 4.905	24.0	4.17

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CHB150-48S05z-5.1V			5.1	29.4
CHB150-48S12Z	36-75 or 48	4.9 or 3.6	12	12.5
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CHB150-48S24Z	36-75 or 48	4.9 or 3 6	24	6.25
CHB100-48S25Z	36-75 or 48	1.8 or 1.335	2.5	20
CHB100-48S33Z	36-75 or 48	2.3 or 1 72	3.3	20
CHB100-48S05Z	36-75 or 48	3.3 or 2 48	5	20
CHB100-48S05Z-5.1V		2.10	5.1	19.6
CHB100-48S12Z	36-75 or 48	3.3 or 2.442	12	8.3
CHB100-48S15Z	36-75 or 48	3.3 or 2.463	15	6.7
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CHB100-24S24Z	18-36 or 24	6.800 or 4.905	24.0	4.17

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ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Special Considerations - The following items are considerations that were used when evaluating this product.

USR/CNR indicates investigation to the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, CAN/CSA-C22.2 No. 60950-1-03 * UL60950-1, First Edition, including revisions through revision dated November 26, 2003.

The component was submitted and tested for a maximum manufacturer's recommended ambient (Tmra) of 40 $^{\circ}\mathrm{C}.$

The component is for building in, Class III (supplied by SELV).

The Transformer in the converter is provided with operational insulation only. Further, for the case of an input voltage of 60<V<75 DC, the output may meet requirements for SELV only under the following conditions: The input power supply to the converter must meet the creepage and clearnce, electric strength and insulation requirements for reinforced insulation based on working voltage that considers both the input and output voltage of the main supply. Abnormal and SELV Reliability Tests must be performed on the input power supply in combination with the converter to demonstrate SELV Reliability of the converter output. SELV Reliability Tests were performed on the unit to show that output voltage remain with SELV limits, even with internally generated non-SELV voltage or with a 75 Vdc input. However, since the 75 Vdc source is not a SELV circuit per sec., it must be tested with the converter to demonstrate the output of the converter meets SELV requirements even under a single fault in the 75 V dc source.