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Product Service

CERTIFICATE

No. U8V 07 08 21433 138

Holder of Certificate: **Vicor Corporation**
25 Frontage Road
Andover, MA 01810
USA

Production Facility(ies): 21433

Certification Mark:

Product: **DC converter**
DC-DC Converter

Model(s): **B384F120T30**
See attachment for additional model information and license conditions.

Parameters:

Rated Input Voltage:	384 V DC
Rated Output Voltage:	12 V DC
Rated Output Power:	300 W Max.
Protection Class:	II

Tested according to:
CAN/CSA-C22.2 No. 60950-1:2003
UL 60950-1:2003
EN 60950-1:2001

The product was voluntarily tested according to the relevant safety requirements and mentioned properties. It can be marked with the certification mark shown above. The certification mark must not be altered in any way. See also notes overleaf.

Test report no.: 090-701315-200

Date, 2007-08-10

TÜV SÜD AMERICA INC • TÜV SÜD AG • 5 Cherry Hill Drive • Danvers MA 01923 USA • www.TUVamerica.com

Product Service

Attachment to Certificate No: U8V 07 08 21433 138

Company: Vicor Corporation
25 Frontage Road
Andover, MA 01810 USA

License Conditions:

Special Considerations – The following items are considerations that were used when evaluating these products.

The BCM family of DC-DC converters are designed for building-in.

Conditions of Acceptability – When installed in the end use equipment, the following are among considerations to be made:

1. **Input Voltage:** Nameplate rating is a nominal input voltage. Vicor Guarantees continuous operation per specifications.
2. **Max Temperature:** Keep the maximum semiconductor junction temperature 125°c or less. This can be achieved in one of two ways. Keep $T_{casemax}$ < 100C under all conditions where $T_{casemax}$ is the maximum case temp of the VI Chip, or Keep $T_{casemax}$ < 125C - ($P_{dissmax}$ X 1.5) under all conditions
   $P_{dissmax}$ is the maximum power dissipation of the module at temperature, defined by P_{Input_max} - P_{Output_max} where P_{Output_max} is defined as the maximum output power in the application.
3. **Overtemperature:** If the internal semiconductor junction temperature exceeds 125°C, the VI Chip may be damaged.
4. **Fusing Requirements:** To meet safety requirements, the input of the BCM module requires a fuse rated 2.5 A or less. Bussmann PC-tron or SOC type 36CFA.
5. The input is intended to be supplied from a non isolated offline circuit. The output is considered to be SELV.
6. Outputs above 240 Watts are considered to be at a hazardous energy level.
7. The output is separated from the input by reinforced insulation.

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Product Service

Attachment to Certificate No: U8V 07 08 21433 138

Company: **Vicor Corporation**
25 Frontage Road
Andover, MA 01810 USA

High Voltage BCM Family Tree Model abbbcdddeff

a =	**Product Type**
B	BCM

bbb =	**Input Voltage**
352	330-365 Vdc
384	360-400

c =	**Lead Type**
K	BGA
F	J Lead
G	Gull Wing

ddd =	**Output Voltage**
110	11 Vdc
120	12 Vdc

e =	**Product Grade**
T	-40 to 125 C
M	-55 to 125 C

ff =	**Output Power**
24	240W
30	300W

Customer Special, VIZ0002 = B352F110T30

Example # 1: B384F120T30
BCM, 384 Vin, J Lead, 12 Vout, T Grade, 300W
Example # 2: B352F110T30
BCM, 352 Vin, J Lead, 11 Vout, T Grade, 300W

Test Report No. 090-701315-200
Date: 2007-08-10

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