



Product Service

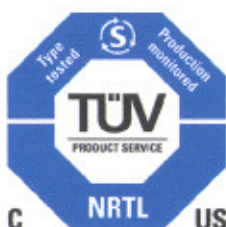
CERTIFICATE

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

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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 $T_{casemax} < 125C - (P_{dissmax} \times 1.5)$ 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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High Voltage BCM Family Tree Model abbbcddeff

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

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