



America

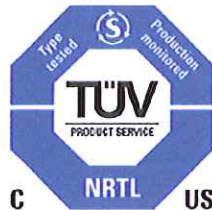
# CERTIFICATE

No. U8V 10 09 21433 252

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

**Production Facility(ies):** 67768

**Certification Mark:**



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

**Model(s):** VIZ0014, VIZ0014x  
 See attachment for additional model information.

**Parameters:**

Rated Input Voltage:	352 V DC
Rated Output Voltage:	11 V DC
Rated Output Power:	600 W Max.
Protection Class:	II

See attachment for license conditions.

**Tested according to:** CAN/CSA-C22.2 No. 60950-1:2007  
 UL 60950-1:2007  
 EN 60950-1/A1:2010

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. This product certification system operated by TÜV SÜD America Inc. most closely resembles that described by ISO/IEC Guide 67, Conformity assessment - Fundamentals of product certification, System 3. See also notes overleaf.

**Test report no.:** 090-1006167-100

**Date,** 2010-09-29

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## Attachment to Certificate Number U8V 10 09 21433 252

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**License Conditions for VIZ0014, VIZ0014x**

– The following items are considerations that were used when evaluating these products.  
The VIZ0014 DC-DC converter is designed for building-in.

1. The VIZ0014 module provides RI from input to output, SI from input to case, and BI from output to case.
2. The Heatsink was considered an intervening unconnected conductive part.
3. The output is considered to be SELV
4. Max Temperature: Keep the maximum semiconductor junction temperature of the VIZ0014 below 125°C. Junction temperature is defined as the hottest semiconductor junction in the device. This can be achieved in one of two ways:

**Method 1.** Monitor the Case temperature

Keep  $T_{casemax}$  less than 95°C under all conditions

**Method 2.** Calculate the max temperature

Keep  $T_{casemax}$  less than 125°C - ( $P_{dissmax} \times 0.65$ ) under all conditions

$T_{casemax}$  is monitored at the hottest point on the case as observed in the end application.

$P_{dissmax}$  is the maximum power dissipation of the VIZ0014 at temperature, defined by  $P_{Input\_max} - P_{Output\_max}$

The thermal resistance from the semiconductor junction to the case is 0.65 °C/W

5. VIZ0014x, x = revision, any letter A through Z, non-safety related

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VI Brick BCM Array Model Number: BCbbbRcccxyyVM-ww

Example: BC352R440T065VM-00

BC = Constant

VI Brick BCM Array	
BC	Buss Converter

bbb = 352

Nominal Input Voltage (range)	
270	270 Vdc (240-330)
352	352 Vdc (330-365)
384	384 Vdc (360-400)

R = R

R = Constant	BCM Array Package Size
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ccc = 440

Output Voltage Designator			
110	11.0 Vdc	440	44.0 Vdc
120	12.0 Vdc	480	48.0 Vdc

x = T

Product Grade		Temp Range
C	Commercial	0 - 100°C
T	Telecom	-40 - 100°C

yyy = 065

Output Power Designator			
024	240 W	048	480 W
030	300 W	060	600 W
033	330 W	065	650 W

VM = VM

VM = Constant	Vertical Mount
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ww = 00

Customer designator (non-safety related)	
ww	Any alphanumeric character

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*Glen McLaughlin*

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**License Conditions for VI Brick BCM Array:**

1. The VI Brick BCM Array series of Vertical Mount DC-DC converter are designed for building-in.
2. The VI Brick BCM Array provides RI from input to output, SI from input to case, and BI from output to case.
3. The Heatsink was considered an intervening unconnected conductive part.
4. The output is considered to be SELV
5. The Max Operating Heatsink Temperature is 100°C

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