



America

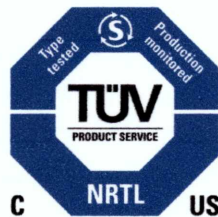
# CERTIFICATE

No. U8V 11 06 21433 281

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

**Production Facility(ies):** 67768

**Certification Mark:**



**Product:** **Converter**  
**VI Brick Intermediate Bus Converter (DC-DC Converter)**

**Model(s):** **IB048E096T48N1-00**  
**Intermediate Bus Converter (IBC)**  
**(See certificate attachment for nomenclature breakdown, ratings and license conditions.)**

**Parameters:**

Rated Input Voltage:	48 V DC (input)
	9.6 V DC (output)
Rated Output Power:	48 A or 500 W max
Degree of Protection:	IPX0

**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.:** 090-1101203-100

**Date,** 2011-06-20

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Attachment to Certificate U8V 11 06 21433 281



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VI Brick Intermediate Bus Converter Model Number: IBaaaEfffGwwxy-zz

Example: IB048E096T48N1-00

<b>IB = Constant</b>	Intermediate Bus
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<b>aaa = Nominal Input Voltage (range)</b>	
048	48 Vdc (38-55)
050	48 Vdc (36-60)
054	48 Vdc (36-60)

<b>E = Constant</b>	Eighth Brick Package
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<b>fff = Output Voltage Designator</b>	
096	9.6Vdc
120	12.0Vdc

<b>G = Product Grade</b>	
T =	-40°C to 125°C

<b>ww = Output Current / Power Designator</b>			
9.6Vdc Output		12Vdc Output	
40	40A or 300W	32	32A or 300W
48	48A or 500W	40	40A or 500W

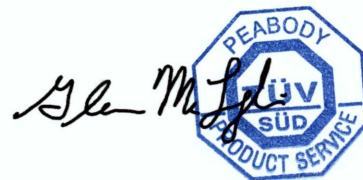
<b>x = Enable Logic (non-safety related)</b>	
N =	referenced to (-) In
P =	referenced to (+) In

<b>y = Pin Style (non-safety related)</b>	
Any alphanumeric character	

<b>zz = Revision Designator (non-safety related)</b>	
Any alphanumeric character	

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**Customer Special Models:**

Customer Special Model Numbers	Equivalent Standard Model Numbers
IBC030E01-00	IB048E096T40N1-00
IBC036E01-00	IB048E096T48N1-00
IBC030E02-00	IB054E096T40N1-00

**Conditions of Acceptability**

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

- Input Voltage:** Both a nominal input voltage and an input voltage range are specified. Operation over the entire range was evaluated. The output voltage is a fixed turns ratio of the input voltage.
- Max Output:** The IBC has both a maximum current and a maximum power rating. The end use application shall not exceed the lower limit of either maximum power or maximum current.
- The input is intended to be supplied from a SELV, TNV-2, or other non-hazardous secondary circuit.
- Max Temperature:** The maximum allowable PCB temperature is 130°C under normal operation and should be evaluated in the end use product.
- Fusing Requirements:** The IBCs were evaluated with an external fast acting fuse. Littelfuse Nano2 rated 30A or less or BEL Fuse SSQ Series rated 15A or less.
- The output is considered SELV.
- The IB048 models provide 1500Vdc of isolation from input to output.
- The IB050 and IB054 models provide 2250Vdc of isolation from input to output.
- The output is separated from the input by Basic Insulation.
- The outputs are above 240VA and are considered hazardous energy.

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