



America

# CERTIFICATE

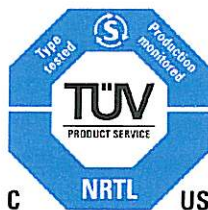
No. U8V 09 09 21433 195

**Holder of Certificate:** Vicor Corporation

25 Frontage Road  
Andover, MA 01810  
USA

**Production Facility(ies):** 67768

**Certification Mark:**



**Product:** Converter  
DC to DC Converter

**Model(s):** VI Brick VTM  
VT048A480T006FP  
See attachment for model nomenclature.

**Parameters:** Rated Input Voltage: 48 V DC  
Rated Output Voltage: 48 V DC  
Rated Output Current: 6.25A  
see license attachment for license conditions.

**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.:** 090-709423-100

**Date,** 2009-09-08

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Attachment 1 to CUE Certificate Number U8 09 09 21433 195

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VI Brick VTM Model Number: VTbbbAcccxyyyzz

Example: VT048A480T006FP

VT = Constant	VI Brick Voltage Transformation Module
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bbb = Nominal Input Voltage (range)	
036	36 Vdc (26-50)
048	48 Vdc (26-55)

A = Constant	Package Size (1 VI Chip)
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ccc = Output Voltage Designator			
010	1.0 Vdc	072	7.2 Vdc
011	1.1 Vdc	080	8.0 Vdc
015	1.5 Vdc	090	9.0 Vdc
020	2.0 Vdc	096	9.6 Vdc
022	2.2 Vdc	120	12.0 Vdc
024	2.4 Vdc	160	16.0 Vdc
030	3.0 Vdc	180	18.0 Vdc
033	3.3 Vdc	240	24.0 Vdc
040	4.0 Vdc	320	32.0 Vdc
045	4.5 Vdc	360	36.0 Vdc
060	6.0 Vdc	480	48.0 Vdc

x =	Product Grade	Temp Range
C	Commercial	0 – 100°C
T	Telecom	-40 – 100°C
M	Military	-55 – 100°C

yyy = Output Current Designator					
003	3 A	013	13 A	040	40 A
005	5 A	015	15 A	050	50 A
006	6 A	017	17 A	055	55 A
007	7 A	020	20 A	060	60 A
009	9 A	025	25 A	070	70 A
010	10 A	027	27 A	080	80 A
012	12 A	030	30 A	100	100 A

zz = Package Style
Any alphanumeric character (non-safety related)

*Glen McLaughlin*



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Customer Special Models:

Customer Special model numbers	Equivalent Standard model numbers
MT036A011M100FP	VT036A011M100FP
MT036A015M080FP	VT036A015M080FP
MT036A022M055FP	VT036A022M055FP
MT036A030M040FP	VT036A030M040FP
MT036A045M027FP	VT036A045M027FP
MT036A060M020FP	VT036A060M020FP
MT036A072M017FP	VT036A072M017FP
MT036A090M013FP	VT036A090M013FP
MT036A120M010FP	VT036A120M010FP
MT036A180M007FP	VT036A180M007FP
MT036A240M005FP	VT036A240M005FP
MT036A360M003FP	VT036A360M003FP

**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.
- Max Temperature:** Keep  $T_{casemax} < 100C$  under all conditions where  $T_{casemax}$  is the maximum case temp.
- Over temperature:** If the temperature exceeds  $100^{\circ}C$ , the internal VI Chip may be damaged.
- Fusing Requirements:** The half size BCM / VTM modules were evaluated with a 3.15A Littelfuse Nano<sup>2</sup>Fuse. If the VTM module is used with a VI Chip PRM then the VTM does not require individual fusing since the PRM requires it's own fuse and provides a current limited source to the VTM input. A worst case scenario of a half size VTM powered by a PRM fused with a 10A Littelfuse Nano<sup>2</sup>Fuse was evaluated. Refer to the PRM safety approvals for complete PRM model numbers and fusing requirements.
- The input to the half size VI Brick is intended to be supplied from a TNV-2 or other secondary circuit. The output is considered to be SELV.
- The Half size BCM and VTM provide 2250 Vdc of isolation from input to output and from the input/output to the case.
- The output is separated from the input by Basic insulation.

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