



America

CERTIFICATE

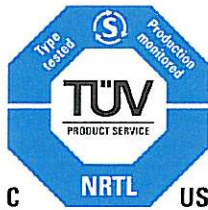
No. U8V 09 09 21433 198

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 PRM
PR045A480T032FP
See attachment for model nomenclature.

Parameters:

Rated Input Voltage:	45 V DC
Rated Output Voltage:	48 V DC
Rated Output Power:	320 W Max

see attachment for additional rating information and 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.: 090-709145-100

Date, 2009-09-18

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Attachment to CUE Certificate Number U8V 09 09 21433 198

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



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VI Brick PRM NOMENCLATURE BREAKDOWN AND ELECTRICAL RATINGS:

VI Brick PRM Model Number: PRbbbAcccxyyyzz

Example: PR045A480T032FP

PR = Constant	VI Brick PRM (Pre-Regulator Module)
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bbb = Nominal Input Voltage (range)	
024	24 Vdc (18 - 36)
028	28 Vdc (16 - 50)
036	36 Vdc (18 - 60)
045	45 Vdc (38 - 55)
048	48 Vdc (36 - 75)

A = Constant	Package Size (1 VI Chip)
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ccc = Nominal Output Voltage Designator (range)	
036	36 Vdc (26-50)
048	48 Vdc (26-50)

x =	Product Grade	Temp Range
C	Commercial	0 to 100C
T	Telecom	-40 to 125C
M	Military	-55 to 125C

yyy = Output Power Designator	
032	320 W
024	240 W
017	170 W
012	120 W

zz = Package Style	Any alphanumeric character (non-safety related)
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Customer Special model numbers	Equivalent Standard model numbers
MR028A036M012FP	PR028A036M012FP

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

1. **Input Voltage:** Both a nominal input voltage and an input voltage range are specified. Operation over the entire range was evaluated.
2. **Max Temperature:** Keep the maximum case temperature of the VI brick at 100°C or less.
3. **Over temperature:** If the case temperature exceeds 100°C, the VI Brick may be damaged.
4. **Fusing Requirements:** The VI Brick PRM modules were evaluated with a Littelfuse Nano²Fuse rated 10A max.
5. The input to the VI Brick PRM is intended to be supplied from a TNV-2 or other secondary circuit.
6. The VI Brick PRM is non-isolating. The output of VI Brick PRM is considered SELV only if the input is SELV.
7. The VI Brick PRM is designed to be used with a VI Brick VTM to provide a complete isolating DC-DC converter. The output of the VI Brick VTM is considered SELV.
8. The input and output are separated from the case by Basic Insulation with a dielectric rating of 2250 Vdc.

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