



Ref. Certif. No.

DE 3 - 503096

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

| | |
|---|---|
| Product | Converter DC-DC Converter |
| Name and address of the applicant | Vicor Corporation 25 Frontage Road Andover MA 01810 USA |
| Name and address of the manufacturer | Vicor Corporation 25 Frontage Road, Andover MA 01810, USA |
| Name and address of the factory | Vicor Inc. 400 Federal Street, Andover MA 01810, USA |
| Ratings and principal characteristics | Rated Input Voltage: 60 V DC; 54 V DC max Rated Output Voltage: 2.3 V DC; 13.5 V DC max Rated Output Current: 135 A; 64 A or 750 W max Protection Class: III Degree of Protection: IPX0 |
| Trade mark (if any) | Vicor |
| Customer's Testing Facility (CTF) Stage used | CTF STAGE 3 |
| Model/type Ref. | VTM2313S60Z01A4T00 / non-isolated SM-ChiP VTM; NBM2317S54D1464TOR / non-isolated SM-ChiP NBM |
| Additional information (if necessary) | Certificate DE 3 - 502592 issued 2017-10-23 is replaced by this version due to technical changes |
| A sample of the product was tested and found to be in conformity with | IEC 60950-1:2005 IEC 60950-1:2005/AMD1:2009 IEC 60950-1:2005/AMD2:2013 |
| as shown in the Test Report Ref. No. which forms part of this certificate | 72126534-200 |

This CB Test Certificate is issued by the National Certification Body

CB 021433 0580 Rev. 00

Date, 2018-09-21

(William J. Stinson)

Page 1 of 3

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany



Product Service

VICOR SM-ChiP VTM

Model Matrix: VTMaaaaSbbZwwxyzz

Example: VTM2313S60Z01A4T00

VTM = Constant

| | |
|------------------|-------------------------------|
| Product Function | |
| VTM | Voltage Transformation Module |

aaaa = 2313

| | |
|------------------------------|---------|
| Package Size Designator (mm) | |
| 1408 | 14 x 08 |
| 2308 | 23 x 08 |
| 2313 | 23 x 13 |

S = Constant

| | |
|-----------------|---------------|
| Lead Designator | |
| S | Surface Mount |

bb = 60

| | |
|--------------------------------------|----------------|
| Input Voltage designator Max (range) | |
| 52 | 52 Vdc (26-52) |
| 55 | 55 Vdc (26-55) |
| 60 | 60 Vdc (26-60) |

Z = Constant

| | |
|---------------------|---|
| Voltage Range Ratio | |
| Z | Z |

ww = 01

| | |
|-----------------------------------|---------------------|
| Output Voltage Designator (range) | |
| 01 | 1 Vdc (0.54 - 1.25) |
| 02 | 2 Vdc (0.65 - 2.30) |

xx = A4

| | | | | | |
|---------------------------|-----|----|------|----|------|
| Output Current Designator | | | | | |
| 50 | 50A | 95 | 95A | A3 | 130A |
| 76 | 76A | A1 | 105A | A4 | 135A |

y = T

| | | | | | |
|--|------------|---|--------------|---|--------------|
| Product Grade (defines the max internal temp, the max external surface temp is limited to 100°C) | | | | | |
| C | 0 to 100°C | T | -40 to 125°C | M | -55 to 125°C |

zz = 00

| | |
|---|----------------------------|
| Revision / Options, Z is not used in first option position, reserved for use in isolated VTM series | |
| zz | Any alphanumeric character |

VICOR SM-ChiP NBM
 Model Matrix: NBMaaaaSbbDwwxyzz

Example: NBM2313S54D164T0R

NBM = Constant

| | |
|------------------|--------------------------|
| Product Function | |
| NBM | Non-isolating Bus Module |

aaaa = 2317

| | |
|------------------------------|---------|
| Package Size Designator (mm) | |
| 2317 | 23 x 17 |

S = Constant

| | |
|-----------------|---------------|
| Lead Designator | |
| S | Surface Mount |

bb = 54

| | |
|--------------------------------------|----------------|
| Input Voltage designator Max (range) | |
| 54 | 54 Vdc (38-54) |

D = Constant

| | |
|---------------------|---|
| Voltage Range Ratio | |
| D | D |

ww = 14

| | |
|---|-----------------------|
| Output Voltage Designator Nominal (range) | |
| 14 | 13.5 Vdc (9.5 – 13.5) |

xx = 64

| | |
|-----------------------------------|------------|
| Output Current / Power Designator | |
| 64 | 64A / 750W |

y = T

| | | | | | |
|--|------------|---|--------------|---|--------------|
| Product Grade (max internal temperature) | | | | | |
| C | 0 to 125°C | T | -40 to 125°C | M | -55 to 125°C |

zz = 0R

| | |
|--------------------|----------------------------|
| Revision / Options | |
| zz | Any alphanumeric character |


