



America

# CERTIFICATE

No. U8V 17 04 21433 520

**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):** PI3101-00-HVIZ / DCZVS  
(see certificate attachment for model nomenclature and ratings.)

**Parameters:**

Rated Input Voltage:	48 V DC
Rated Output Voltage:	3.3 V DC
Rated Output Power:	60 W Max

**Tested according to:** CAN/CSA C22.2 No.60950-1:2007/A2:2014  
UL 60950-1:2007/A2:2014  
EN 60950-1:2006/A2:2013

The product was voluntarily tested according to the relevant safety requirements noted above. It can be marked with the certification mark above. The mark must not be altered in any way. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC 17067. Certification is based on the TÜV SÜD "Testing and Certification Regulations". TÜV SÜD America Inc. is an OSHA recognized NRTL and a Standards Council of Canada accredited certification body.

**Test report no.:** 72126029-000

**Date,** 2017-04-18

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America

Picor Cool Power DC-DC Converter Model Number: PI31aa-bb-ccde

Sample model number: PI3101- 00-HVIZ

<b>PI = constant</b>	Picor
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<b>31 =</b>	Low power DC-DC converter
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<b>aa =</b>	<b>Defines Electrical Ratings</b>		
	Vin Nom (Range) Vdc	Vout (Vdc)	Pout (W)
01	48 (36-75)	3.3	60
04	48 (36-75)	5.0	60
05	48 (36-75)	12.0	60
06	28 (16-50)	12.0	60
07	28 (16-50)	24.0	60
08	28 (16-50)	3.3	60
09	28 (16-50)	5.0	60
10	48 (41-57)	18.0	60
11	28 (16-50)	15.0	60
12	28 (16-50)	28.0	60

00-49 are reserved for isolating converters  
50-99 are reserved for non-isolating converters

<b>bb =</b>	<b>Model Variation</b>
00	Base model, no variation
01	Narrow input voltage range
02 - 99	Base model variation, non-safety related

<b>cc =</b>	<b>Package Size</b>
HV	Half VIC

<b>d =</b>	<b>Product Grade</b>
C	Commercial (0 to +100°C)
I	Industrial (-40 to +100°C)
M	Mil-Cot (-55 to +100°C)

<b>e =</b>	<b>Environmental Designation (non-safety related) May be any alphanumeric character, non-inclusive list shown below</b>
Z	RoHS
G	Green

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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. The input to the DC-DC converter is intended to be supplied from a TNV-2 or other non-hazardous secondary circuit.
3. **Max Temperature:** The maximum case temperature is 100°C.
4. **Over temperature:** If the case temperature exceeds 100°C the Chip may be damaged.
5. **Fusing Requirements:** The DC-DC converters were evaluated with a fast acting Littelfuse Nano<sup>2</sup> fuse rated 10A. A Littelfuse Nano<sup>2</sup> fuse rated less than 10A may be used in the end application.
6. The output is considered to be SELV.
7. The isolated DC-DC converters provide 2250 Vdc of isolation from input to output and from the input/output to the case.
8. The output is separated from the input by Basic insulation.

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