

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

CB TEST CERTIFICATE

Product	Information Technology Equipment Active EMI Filter for DC-DC Converters
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	Automated Technology Phil., Inc. Light Industry & Science Park, 4025 SEPZ, Cabuya, Laguna,, PHILIPPINES
Ratings and principal characteristics	Rated Input Voltage: 30-80 V DC Rated Input Current: 14 A Degree of Protection: IPX0
Trade mark (if any)	VICOR
Customer's Testing Facility (CTF) Stage used	CTF STAGE 3
Model/type Ref.	QPI-6LZ (see page 2-3 for Model Matrix and License Conditions)
Additional information (if necessary)	Certificate DE 3 – 502589 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	72131874-100

This CB Test Certificate is issued by the National Certification Body

CB 021433 0596 Rev. 00

Date, 2019-09-02



(William J. Stinson)

Page 1 of 3

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Vicor QuietPower EMI Filter
 Model matrix: QPw-xyz-aa

QP = Constant	Quiet Power series of filters
	QP may be replaced by MQP for MIL-Cots

w = Filter Type	
I	Input filters (Input side of a DC-DC Converter)
O	Output filters (Output side of a DC-DC Converter)

xx = Electrical Ratings any numeric combination			
Model Number	Vin range	Output Current	Dielectric Withstand In/Out to Shield
QPO-1	3.0 - 30 Vdc	10A	None
QPO-2	3.3 - 5.5 Vdc	20A	None
QPI-3	10 - 40 Vdc	7A	707 Vdc
QPI-4	30 - 80 Vdc	7A	1500 Vdc
QPI-5	10 - 40 Vdc	14A	707 Vdc
QPI-6	30 - 80 Vdc	14A	1500 Vdc
QPI-7	18 - 38 Vdc	6A	707 Vdc
QPI-8	30 - 80 Vdc	6A	1500 Vdc
QPI-9	18 - 38 Vdc	6A	707 Vdc
QPI-10	30 - 80 Vdc	6A	1500 Vdc
QPI-11	5.0 - 50 Vdc	6A	707 Vdc
QPI-12	30 - 80 Vdc	7A	1500 Vdc
QPI-18	30 - 80 Vdc	7A	1500 Vdc
MQPI-18	10 - 50 Vdc	7A	1500 Vdc
QPI-21	30 - 80 Vdc	14A	1500 Vdc

y = Surface Mount Description	
L	Land Grid Array (LGA)

z = RoHS (Optional, non-safety related)	
Z	RoHS Compliance
P	Pb solder

aa = Packaging / Options any alphanumeric combination (Optional, non-safety related)			
01	Open frame	Blank	Lidded package

License Conditions:

Special Considerations – The following items are considerations that were used when evaluating these products. The EMI Filters QPI and QPO are designed for building-in.

1. The input and output of QPI filters rated 30 - 80Vdc are considered TNV-2
2. The input and output of QPI filters rated less than 60V are SELV
3. The QPO filters are SELV
4. Basic insulation is provided from Input / Output to Shield for the TNV-2 filters
5. Operational / Functional insulation is provided from Input / Output to Shield for the QPI SELV filters
6. The maximum rated currents are based on a PCB temperature limit of 60°C
7. The max current is de-rated linearly 1 A / 10°C from 12A at 60°C to 8A at 100°C for 12A filters
8. The max current is de-rated linearly 250 mA / 10°C from 7 A at 60°C to 6A at 100°C for 7A filters
9. The max current is de-rated linearly 500 mA / 10°C from 14 A at 60°C to 12A at 100°C for 14A filters
10. The max current is de-rated linearly 400 mA / 10°C from 6 A at 60°C to 5A at 100°C for 6A filters

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Page 3 of 3

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