

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20150729-E192116  
**Report Reference** E192116-19981106  
**Issue Date** 2015-JULY-29

**Issued to:** VINCOTECH HUNGARY LTD  
KOSSUTH L U 59  
2060 BICSKE HUNGARY

**This is to certify that  
representative samples of**

COMPONENT - ELECTRICALLY ISOLATED  
SEMICONDUCTOR DEVICES

See Addendum Page

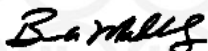
Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 1557 - Electrically Isolated Semiconductor Devices  
**Additional Information:** See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's  
Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance  
capabilities and are intended for use as components of complete equipment submitted for investigation rather  
than for direct separate installation in the field. The final acceptance of the component is dependent upon its  
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



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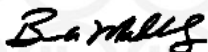
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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Power Switching Semiconductors as indicated in the nomenclature Tables below. All Model Numbers may be followed by additional suffixes.

**Nomenclature:**

Base Model Number	f/b	f/b	f/b	f/b
V23990	-P	8	0 – 9	A, B, C, D, J or E-Z
V23990	-P	1	1, 3, 4, or 9	A, B, or D
V23990	-P	6	8 or 9	A
V23990	-P		211, 213, 214 or 311	A, B, or D
V23990	-P	28	0 – 9	A - Z
V23990	-P	30	0 – 9	B, D
V23990	-P	34	0, 1, 3, 4 or 9	A or B
V23990	-P	18	0, 5, 6, 8 or 9	A, B, C, D, E, or F
V23990	-P	33	0.5, 6, 8 or 9	A or C
V23990	-P		260, 350 or 351	A
V23990	-P		290	B
V23990	-P		110	A
V23990	-P	32	0 – 9	A
V23990	-P	38	0 – 9	A
V23990	-P	43	0 – 9	F
V23990	-P	46	0 – 9	A
V23990	-P	48	0 – 9	A - Z
V23990	-P	45	0 – 9	A
V23990	-P	47	0 – 9	F
V23990	-P	36	0 – 9	F
V23990	-P	37	0 – 9	B or D



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Nomenclature (Continued):

Base Model Number	f/b	f/b	f/b	f/b
V23990	-P	40	0-9	B or D
V23990	-P	44	0-9	C or D
V23990	-P	50	0-9	A - Z
V23990	-P	51	0-9	A - Z
V23990	-P	53	0-9	A - Z
V23990	-P	54	0-9	A - Z
V23990	-P	55	0-9	A - Z
V23990	-P	56 or 57	0-9	
V23990	-P	58	0-9	
V23990	-P	59 or 60	0-9	
V23990	-P	61	0-9	
V23990	-P	62	0-9	
V23990	-P	63	0-9	
V23990	-P	64	0-9	
V23990	-P	65	0-9	
V23990	-P	66	0-9	
V23990	-P	68	0-9	
V23990	-P	69	0-9	
V23990	-P	70	0-9	
V23990		71	0-9	
V23990		72	0-9	
V23990		73	0-9	
V23990		76	0-9	
V23990		80	0-9	
V23990		82	0-9	



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Base Model Number	f/b	f/b	f/b	f/b
V23990		83	0 – 9	
V23990		84	0 – 9	
V23990		86	0 – 9	
V23990	–K	10, 11, 12, 13, 15, 16, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, or 29	0 – 9	
V23990	–K	3, 4, or 5	00 - 99	A - Z

Nomenclature (Continued):

Example: Model V23990-P540-A20-\*-PM (Older naming convention still in use)

Example:	V23990	P54	0	A20	*	PM
	I	II	III	IV	V	VI

I	V23990-	Base Model (always the same), representing it is a power module.
II	P54	Product family – based on this the products can be put into one of the construction types, this one is for example fits into 10-.
III	0-	Suffix to indicate semiconductor voltage and power.
IV	A20-	Product Subtype – Used to differentiate between circuit types, semiconductor types, etc.
V	*	Product Revision
VI	PM	We use it as part number ending characters (in the former times it meant „power module“).



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Example: Model 70-W212NMA600SC-M200P-\* (Newer naming convention)

Example:	70-	W212NMA600SC-	M20	0	P	*
	I	II	III	IV	V	VI

I	70-	Base Model - Represents the Series/Construction type. 10 – Construction Type 1 20 – Construction Type 2 30 – Construction Type 3 3B – Construction Type 3B 70 – Construction Type 7 80 – Construction Type 8
II	W212NMA600SC-	Contains sub-construction, circuit topology, voltage and current ratings. Does not affect Isolation.
III	M20	Product family
IV	0	Indicates Voltage and Power ratings
V	P	Product subtype
VI	*	Product Revision



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-2124391-0  
**Report Reference** E192116-20210501  
**Date** 17-May-2021

**Issued to:** Vincotech Hungaria Kft.  
Kossuth u. 59 Bicske  
Hungary 2060

**This is to certify that  
representative samples of**

QQQX2 - Electrically Isolated Semiconductor Devices -  
Component

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**Standard(s) for Safety:** UL 1557, 6th Ed., Issue Date: 2018-03-19

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



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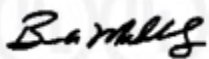


# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-2124391-0  
**Report Reference** E192116-20210501  
**Date** 17-May-2021

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

<b>Model</b>	<b>Category Description</b>
B0, B0, followed by SL or SP, followed by a two-digit number, followed by three letters, followed by a three-digit number, followed by two to five alphanumeric characters, followed by four to ten alphanumeric characters.	Power Switching Semi-Conductors



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