Certificate Number Report Reference Issue Date 20150729-E192116 E192116-19981106 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: Additional Information: UL 1557 - Electrically Isolated Semiconductor Devices See the UL Online Certifications Directory at 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.

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Bruce Mahrenholz, Director North American Certification Program



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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.

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	-Р	6	8 or 9	A
V23990	-Р	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	211, 213, 214 or 311	A, B, or D
V23990	-P	28	0-9	A - Z
V23990	-P	30	0 - 9	B, D
V23990	-Р	34	0, 1, 3, 4 or 9	A or B
V23990	-Р	18	0, 5, 6, 8 or 9	A, B, C, D, E, or F
V23990	-Р	33	0.5, 6, 8 or 9	A or C
V23990	-Р	$\langle X \rangle$	260, 350 or 351	A
V23990	-Р	XULX	290	BU
V23990	-P		110	A
V23990	-P	32	0 – 9	A
V23990	-Р	38	0 - 9	A
V23990	-Р	43	0-9	F
V23990	-Р	46	0 - 9	А
V23990	-P	48	0-9	A - Z
V23990	-P	45	0 – 9	А
V23990	-Р	47	0-9	
V23990	-Р	36	0 - 9	. F.H.
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	- YU- YI
V23990	-P	58	0-9	<b>JUJU</b>
V23990	-P	59 or 60	0-9	
V23990	-P	61	0-9	しん・しん・
V23990	-P	62	0-9	$\langle \times \rangle$
V23990	-P	63	0-9	I X UI X U
V23990	-Р	64	0-9	
V23990	-P	65	0-9	. Vii. Vi
V23990	-P	66	0-9	いい
V23990	-P	68	0-9	
V23990	-P	69	0-9	
V23990	-P	70	0-9	
V23990	VII.V	71	0-9	VII.VI
V23990		72	0-9	<b>J</b> C J/C
V23990		73	0-9	
V23990	人リレ人	76	0-9	しんりしんい
V23990	X	80	0-9	$\langle \times \rangle$
V23990	VUEV	82	0-9	I YUI YI

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

Nomenclature (Continued):

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

Example:	V23990	P54	0	A20	*	PM
$(\mathbf{h} \mathbf{V})$	1		III	IV	V	VI

	V23990-	Base Model (always the same), representing it is a power module.
	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	РМ	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	Р	*
U.V.	-All	<b>N°LN'U</b>		IV	V	VI

ΠĒ	<b>WIEVIEV</b>	Base Model - Represents the Series/Construction type.
	N SUS	10 – Construction Type 1
	XX	20 – Construction Type 2
(Uh)	70-	30 – Construction Type 3
	ヘントン	3B – Construction Type 3B
		70 – Construction Type 7
(11)	<u> Y II. V II. V</u>	80 – Construction Type 8
Ш	W212NMA600SC-	Contains sub-construction, circuit topology, voltage and current ratings. Does not affect Isolation.
	M20	Product family
IV	0	Indicates Voltage and Power ratings
v	P	Product subtype
VI	*J-) (J-)	Product Revision

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