

CERTIFICATE

No. U8V 18 04 21433 570

Holder of Certificate: Vicor Corporation

25 Frontage Road Andover MA 01810

USA

Production Facility(ies):

67768

Certification Mark:



Product: Converter

DC-DC Converter

Model(s): DCM290P138T600A41

Type: VICHIP DCM4623 Series High Voltage Panel Mold DCM

(see attachment for additional model nomenclature,

rating information & License Conditions)

Parameters: Rated Input Voltage: 290 V DC

Rated Output Voltage: 13.8 V DC
Rated Output Power: 600 W Max

Tested CAN/CSA C22.2 No.60950-1:2007/A2:2014

according to: UL 60950-1:2007/R:2014-10 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.

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High voltage panel mold DCM Model Matrix: DCMbbbwdddefffxyz

Example: DCM290P138T600A41

DCM = Constant

DCM Family Converter Module		
DCM	Standard version	
MDCM	MIL-COTS version	

bbb = 290

Nominal	Input Voltage (Maxim	um Voltage	e Range)				
120	120V (90-150)	210	210V (140-310)	290	290V (160-420)	380	380V (340-420)
175	200V (90-260)	270	270V (160-420)	300	300V (180-420)		
255	210V (90-420)	275	275V (120-420)	360	360V (300-420)		

w = P

Package Type and Lead designator			
Р	Panel Mold Through-hole		
L/N	Panel Mold Lead-less		

ddd = 138

Output Voltage E examples below.	Designator, Vout = I	Designator / 10, an	y 3 digit number fro	om 000 to 540. No	on-inclusive list of
033	3.3V	138	13V	280	28V
050	5V	150	15V	420	42V
090	9V	220	22V	480	48V
120	12V	240	24V	528	52.8V

e = T

Produc	t Grade	
T	-40 to 125C	
M	-55 to 125C	
С	0 to 85C	

fff = 600

	Power, any les below.	3 digit nu	umber from	000 – 60	0. Non-inc	usive list	of
100	100W	250	250W	400	400W	500	500W
150	150W	375	375W	450	450W	600	600W

x = A

Rev	rision (non-safety related)	
Х	Any alphanumeric character	

y =	4	
Pac	kage Size	
Δ	4623	

Functional	ality (non-safety related), any alphanumeric character, non-inclusive imples below.
0	No communication
1	Communication enabled
R	Reversible

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Alternate: High voltage panel mold DCM Model Matrix: DCM4623cddewwxxyzz

Example: DCM4623TD2G53F0T01

4623 = Consta	nt
Package Size (r	nm)
4623	46 x 23

c = T

Lead Designator				
Т	Through-Hole	L/N	Leadless	

dd = D2

Maximum Input Voltage = 1 st character + 2 nd character (see table below, not to exceed 42 1 st character 2 nd character 2 nd character							
Α	100V	0	0 V	4	40 V	8	80 V
В	200V	1	10 V	5	50 V	9	90 V
С	300V	2	20 V	6	60 V		
D	400V	3	30 V	7	70 V		

e = G

Rang	je Ratio (\	/in high	/ Vin low,	defines	s low line)		
Α	1.10	G	1.95	N	3.45	U	6.12
В	1.21	Н	2.14	Р	3.80	V	6.73
С	1.33	J	2.36	Q	4.18	W	7.40
D	1.46	K	2.59	R	4.60	X	8.14
Е	1.61	L	2.85	S	5.05	Y	8.95
F	1.77	M	3.14	Т	5.60	Z	9.85

ww = 53

Maximum	Output Voltage including trim (any 2 digits	up to 60), non	-inclusive list of examples
04	4Vdc (3.3V nominal +10% trim)	26	26Vdc (24V nominal +10% trim)
06	6Vdc (5V nominal +10% trim)	31	31Vdc (28V nominal +10% trim)
13	13Vdc (12V nominal +10% trim)	53	53Vdc (48V nominal +10% trim)
17	17Vdc (15V nominal + 10 trim)		

xx = F0

1 st character		2 nd character					
Α	100 W	0	0 W	5	50 W		
В	200 W	1	10 W	6	60 W		
С	300 W	2	20 W	7	70 W		
D	400 W	3	30 W	8	80 W		
E	500 W	4	40 W	9	90 W		
F	600 W						

y = T zz = 01

Product Grade			Options (non-safety related), any alphanumeric combination, non-inclusive list of examples below		
С	-20 to 100°C	00	Analog Communication		
T	-40 to 100°C	01	Digital Communication		
M	-55 to 100°C				

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License Conditions:

Special Considerations – The following items are considerations that were used when evaluating these products.

The high voltage panel mold VICHIP DCM4623 series of DC-DC converters are designed for building-in.

Conditions of Acceptability – When installed in the end use equipment, the following are among considerations to be made:

- See de-rating curves for maximum output power, chip temperature, and input voltage. The
 de-rating curves represent the maximum operating conditions of the product family. Some
 model numbers may be rated less than the maximum operating conditions.
- 2. Max Output: The DCM has an MNL of 600W as a standalone device or up to 690W when used in an array.
- 3. The output is separated from the input by reinforced insulation.
- 4. The output is considered to be SELV.
- 5. Outputs above 240W are considered to be at a hazardous energy level.
- 6. FUSING: The DCMs were evaluated with an EATON PC-Tron series fuse rated 5A and a Littelfuse 487 series rated 8A max.

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