Ref. Certif. No.

CA/26006/CSA

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

CB TEST CERTIFICATE

Product	DC-DC Converter
Name and address of the applicant	Bel Fuse Inc. 206 Van Vorst St., Jersey City, NJ 07302, USA
Name and address of the manufacturer	Bel Fuse Inc. 206 Van Vorst St., Jersey City, NJ 07302, USA
Name and address of the factory Note: *When more than one factory, please report on page 2*	Bel Power Solutions, s.r.o. Areal ZTS 924, Dubnica nad Vahom 01841, Slovakia ☐ Additional Information on page 2
Ratings and principal characteristics	Refer to Page 2 of Certificate
Trademark / Brand (if any)	bel POWER SOLUTIONS & PROTECTION a bel group
Customer's Testing Facility (CTF) Stage used	CTF Stage 3
Model / Type Ref.	HP Series
Additional information (if necessary may also be reported on page 2)	Additionally evaluated to EN 62368-1:2020+A11:2020 ☐ Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2018. (Refer to CB Test Report for the declared National Differences)
As shown in the Test Report Ref. No. which forms part of this Certificate	CB 170351-80042828

This CB Test Certificate is issued by the National Certification Body

CSA GROUP™

CSA Group
178 Rexdale Boulevard
Toronto, ON M9W 1R3 Canada

Date: 2020-11-25

Signature: William Meng

Model/Ratings and principal characteristics

Model	Input, DC		Output 1 and 4, DC			Output 2 and 3, DC			No. of Outputs
	V	A	V	A, 50°C	A, 71°C	V	A, 50°C	A, 71°C	
HP1001	16.8 to 137.5	15	5.1	36	24	—	—	—	1
HP1301			12	16	10.2	—	—	—	1
HP1501			15	12.8	8	—	—	—	1
HP1601			24	8	5.1	—	—	—	1
HP2001			5.1	18	12	5.1	18	12	1,2
HP2020			5.1	18	12	12	8	5.1	1,2
HP2040			5.1	18	12	15	6.4	4	1,2
HP2320			12	8	5.1	12	8	5.1	1,2
HP2540			15	6.4	4	15	6.4	4	1,2
HP2660			24	4	2.55	24	4	2.55	1,2
HP3020			5.1	18	12	12	4	2.5	1,2,3
HP3040			5.1	18	12	15	3.2	2	1,2,3
HP3060			5.1	18	12	24	2	1.25	1,2,3
HP4320			12	4	2.5	12	4	2.5	1,2,3,4
HP4540			15	3.2	2	15	3.2	2	1,2,3,4
HP4560			24	3.2	2	24	2	1.25	1,2,3,4
HP4660			24	2	1.25	24	2	1.25	1,2,3,4
HP8029	15.8 to 45	15	5.1	18	12	12	4	2.5	1,2,3

Model Name Nomenclature

Typical Model Designation: H P 4 6 60 - 9 R B1 G
I II III IV V VI VII VIII IX

I – Input Voltage, Vdc: H -- 15.8 to 137.5 Vdc (Input voltage range is adjustable)

II – Model Series: P

III - No. of Outputs: 1 – Single Output (160 mm case), 6 – Single Output (220 mm case)
2 – Double Output (160 mm case), 7 – Double Output (220 mm case)
3 – Triple Output (160 mm case), 8 – Triple Output (220 mm case)
4 – Quadruple Output (160 mm case), 9 – Quadruple Output (220 mm case)

IV – Nominal Voltage [Output1/Output4, dc] 0 - 5.1 V
3 - 12 V
5 - 15 V
6 - 24 V
7,8 - other voltages [1)]
01..99 - Other specifications and additional features[1]

V – Nominal Voltage [Output2/Output3, dc] 01 - 5.1 V
20 - 12 V
40 - 15 V
60 - 24 V
02..99 - other voltages [1)]

VI Operational ambient temperature range Ta : 9 = - 40ºC to 71ºC
0 = other[1]

VII Output voltage adjust (auxiliary function) – Optional: R

VIII - Options:

T - Current sharing
B0 - Heatsink 10 mm thick
B1 - Heatsink 20 mm thick
B3 - Heatsink 30 mm thick
Uxx - UVL (preadjusted Vi min) [2)]
V - (rotary switch to adjust Vi min)

IX – Options Suffix: Any alpha-numeric character indicating non-safety critical options

Notes:

[1)] Customer specific models not exceeding 24V
[2)] Input voltage can be preadjusted as below:
U14 = 16.8 – 137.5V (for 24V batteries)
U21 = 25.2 – 137.5V (for 36V batteries)
U42 = 50.4 – 137.5V (for 72V batteries)
U70 = 77 – 137.5V (for 110V batteries)

Note: Any model name can be formulated based on different output combinations as long as input current will not exceed 15 A.

Additional information (if necessary)

Date: 2020-11-25 Signature: William Meng