

Proprietary Information of:  bel POWER SOLUTIONS & PROTECTION a bel group	Title: EN 50155 Declaration of Conformity	Document No. URR.20096	Rev. B
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Declaration of Conformity

We, Bel Fuse Inc., hereby declare under our sole responsibility that the products herein after referred to are in compliance with the **EN 50155:2021**.

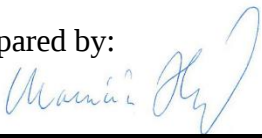
Manufacturer/Address: **Bel Fuse Inc.
Executive Drive Suite 300
West Orange, NJ 07052
United States**

Product: **132-192 Watt DC-DC Converters**

Type Designation: **P Series per datasheet part number description**

Standard(s): **EN 50155:2021
EN 50124-1:2017
EN 50125-1:2014
EN 50121-3-2:2016/A1:2019
EN 50121-4:2016/A1:2019
EN 60529:1991/A2:2013/AC:2019-02
EN 61373:2010/AC:2017-09
EN 45545-2:2020+A1 :2023
(Refer to Table 2 listing achieved compliance)**

Prepared by:


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Table 2: Compliance status

Subclause	Title	Default requirement	Product compliance
4.4.1	Altitude	Class A1 (1400 metres) Table 1 of EN 50125-1:2014	Fulfilled (2000 m)
4.4.2	Operating temperature	Class OT3 (-25 to +70 degC)	(OT4) fulfilled for version -9 (OT3) fulfilled for version -7
4.4.3	Switch-on extended op. temp.	Class ST1 (Test cycle B)	Fulfilled (ST1)
4.4.4	Rapid temperature variation	Class H1 (No requirements)	Fulfilled (H1)
4.4.5	Shock and Vibration	Category 1; Class B of EN 61373	Fulfilled
4.4.6	Electromagnetic compatibility	In compliance with EN 50121-3-2	Fulfilled
4.4.7	Relative humidity	In compliance with EN 50125-1:2014	Fulfilled
4.5.2	Atmospheric pollutants	No requirements applies by default	Fulfilled (Salt Mist per EN 50155:2021, clause 13.4.13)
5.2.2	The nominal voltage of equipment (Un)	Either of following values: 24 V, 36 V, 48 V, 72 V, 110	Fulfilled (24V, 36V, 48V, 72V, 110V)
5.2.2	Continuous DC power supply range	Table4: 0.7 x Un – 1.25 x Un	Fulfilled (16.0V – 150V)
5.2.3	Temporary DC power supply fluctuation	Table4: 0.6 x Un – 1.4 x Un (for 100msec)	Fulfilled (14.4V – 154V)
5.2.4	Interruption of voltage supply	Class S2 (10 msec)	Fulfilled (S1), S2 with external capacitors defined in datasheet
5.2.5	Supply Change-Over	Table6: Class C1	Fulfilled (C1)
5.2.7	DC ripple factor	Ripple factor of +/- 5%	Fulfilled (+/-5%)
6.2	Useful life	Class L4	Fulfilled (L4)
6.3.2	Preventive maintenance	No periodic maintenance applies	Fulfilled (No maintenance required)
7.2.1	Insulation Coordination	Pollution degree PD2 of EN 50124-1:2017	Fulfilled (PD2)
		Table 13 (13.4.7): Insulation & withstand test voltages shall be applied	Fulfilled
10.2.1	Electronic assembly acceptability	Class 2 according to IPC-A-610	Fulfilled (Class 2)
10.2.5	Sockets and Edge connectors	Class K2 (not allowed)	Fulfilled (K2)
10.7	Protective coatings for PCB's	Class PC2	Fulfilled (PC2)
10.9	Mounting	Enclosure shall provide the necessary protection (IP code acc to EN60529)	Fulfilled (IP40)
10.10	Cooling and ventilation	Forced ventilation for cooling is not allowed	Fulfilled (No forced cooling)
11.4	Fire behaviour requirements	Fire behavior testing shall be according to EN 45545-2.	Fulfilled (Hazard level 3)
12.7.8.3	Programmable component	Class M0	Not Applicable

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P Series

90 - 192 W DC-DC Converters



Part Number Description

		C	P	3	0	20	-9	D	T	B1	G
Input voltage $V_{i\text{nom}}$:											
24 VDC	B										
48 VDC	C										
72 VDC	D										
110 VDC	E										
36 VDC	G										
Series	P										
Number of outputs:											
Single output (160 mm case) ⁴	1										
Double output (160 mm case) ⁴	2										
Triple output (160 mm case) ⁴	3										
Quadruple output (160 mm case) ⁴	4										
Nominal voltage output 1/output 4, $V_{o1/4\text{nom}}$:											
3.3 V	1										
5.1 V	0										
12 V	3										
15 V	5										
24 V	6										
other voltages ¹	7, 8										
Other specifications and additional features ¹	01, ... 99										
Nominal voltage output 2/output 3, $V_{o2/3\text{nom}}$:											
5.1 V	01										
3.3 V	10										
12 V	20										
15 V	40										
24 V	60										
other voltages and features ¹	80, ... 99										
Operational ambient temperature range T_A :											
-40 to 71 °C	-9										
-25 to 71 °C (option)	-7										
others ¹	0, -6										
Output voltage adjust (auxiliary function)	R										
Options:											
Out OK output	D										
Current sharing	T ²										
H15 standard connector	K ³										
Heatsink	B0, B1, B3										
RoHS compliant for all 6 substances	G										

¹ Customer-specific models.

² Only available for 3.3 V and 5 V outputs. Option T excludes option R, except for single-output models; refer to table 1.

³ For single-output models with 3.3 V or 5 V output

⁴ Models with 220 mm case length. Just add 5000 to the standard model number, e.g. EP8060-9RG.