

Proprietary Information of:  POWER SOLUTIONS & PROTECTION	Title: EN 50155 Declaration of Conformity	Document No. URR.20097	Rev. A
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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**.

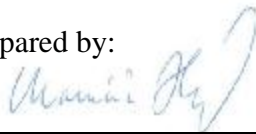
Manufacturer/Address: **Bel Fuse Inc.
Executive Drive Suite 300
West Orange, NJ 07052
United States**

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

Type Designation: **HP Series**
(Refer to Table 1 listing affected part numbers)

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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(Place)

13/06/2024

(Date)

Approved by:



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(Place)

13/06/2024

(Date)

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Table 1: List of affected product part numbers

No.	P/N	No.	P/N
1	HP1001-9RTG	22	HP2540-9RU42G
2	HP1001-9RTVB0G	23	HP2660-9RB0G
3	HP1001-9RTVG	24	HP2660-9RB1G
4	HP1001-9RTB3G	25	HP2660-9RB3G
5	HP1102-9TVG	26	HP2660-9RG
6	HP1301-9RTB1G	27	HP2660-9RGA101
7	HP1301-9RTG	28	HP2660-9RU14G
8	HP1501-9RTB1G	29	HP2660-9RVG
9	HP1501-9RTG	30	HP3020-9RG
10	HP1601-9RTB0G	31	HP3020-9RVG
11	HP1601-9RTB1G	31	HP3020-9TG
12	HP1601-9RTG	33	HP3020-9RU42G
13	HP1601-9RTVG	34	HP3020-9RB0G
14	HP2020-9RG	35	HP3040-9RB1G
15	HP2320-9RG	36	HP3040-9RG
16	HP2320-9RVG	37	HP3040-9RVG
17	HP2540-9RG	38	HP3060-9RG
18	HP2540-9RU21B1G	39	HP3060-9RU14G
19	HP2540-9RU21G	40	HP3060-9RVG
20	HP2540-9RVG	41	HP3060-9RGA104
21	HP2540-9TB1G	42	HP4320-9RG

Note: model names may be followed by suffix indicating non-EMC critical options.

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Table 1: List of affected product part numbers (continue)

No.	P/N	No.	P/N
43	HP4540-9RG	64	HP8060-9RGA102
44	HP4560-9RG	65	
45	HP4660-9RB0G	66	
46	HP4660-9RB1G	67	
47	HP4660-9RB3G	68	
48	HP4660-9RG	69	
49	HP4660-9RU14G	70	
50	HP4660-9RU21G	71	
51	HP4660-9RU42G	72	
52	HP4660-9RU70G	73	
53	HP4660-9RVG	74	
54	HP4661-9RU14G	75	
55	HP4661-9RU21G	76	
56	HP4661-9RU42G	77	
57	HP6001-9RTG	78	
58	HP6601-9RTG	79	
59	HP7540-9RB0G	80	
60	HP7660-9RG	81	
61	HP8020-9RU42G	82	
62	HP8029-9RG	83	
63	HP8060-9RG	84	

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Table 2: Compliance status

Subclause	Title	Default requirement	Product compliance
4.4.1	Altitude	Class A1 (1400 meters) Table 1 of EN 50125-1	Fulfilled (2000 m)
4.4.2	Operating temperature	Class OT3 (-25 to +71 deg C)	Fulfilled (OT4)
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 61373:2010	Fulfilled
4.4.6	Electromagnetic compatibility	In compliance with EN 50121-3-2:2016	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	Continuous DC power supply range	Table 4: $0.7 \times U_n - 1.25 \times U_n$	Fulfilled (16,8 V– 137,5 V)
5.2.3	Temporary DC power supply fluctuation	Table 4: $0.6 \times U_n - 1.4 \times U_n$ (for 100 msec)	Fulfilled (12,5 V– 154 V)
5.2.4	Interruption of voltage supply	Table 5: Class S2 (10 msec)	Fulfilled (S2)
5.2.5	Supply Change-Over	Table5: 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 voltage shall be applied	Fulfilled
10.2.1	Electronic assembly acceptability	Class 2 according to IPC-A-610	Fulfilled (Class 2)
10.2.5	IC 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 EN60529:1991)	Fulfilled (IP40) – Note 1
10.10	Cooling and ventilation	Forced ventilation for cooling is not allowed	Fulfilled (No forced cooling)
11.4	Fire behavior requirements	Fire behavior testing shall be according to EN 45545-2:2020	Fulfilled (Hazard level 3)
12.7.8.3	Programmable component	Table10: Class M0	Not Applicable (No user Programable components)

Note 1: IP 40: All models, except those with options „V“ (with rotary switch).