

Proprietary Information of: 	Title: EMC Declaration of Conformity	Document No. URR.03474	Rev. AF
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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 European **EMC Directive 2014/30/EU**.


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

Product: **DC-DC Converter**

Type Designation: HP1001, HP6001, HP1301, HP1501, HP1601, HP6601 Series
 HP2020, HP2320, HP2540, HP7540, HP2660, HP7660 Series
 HP3020, HP8020, HP3040, HP3060, HP8060 Series
 HP4320, HP4540, HP4560, HP4660, HP4661 Series
 HP8029-9RG
 (Refer to detailed P/N on next page(s))

Directive: **DIR 2014/30/EU, EMC Directive**
 EMC Standard(s): **EN 55011:2016/A2:2021**
EN 50121-3-2:2016/A1:2019
EN 50121-4:2016/A1:2019

Prepared by:



(Manufacturer)
Marian Hostacny, Engineering Manager
(Place)
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(Date)
Jun 13, 2024

Approved by:



(Place)
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Santa Clara, United States Jun 13, 2024

Proprietary Information of:  bel POWER SOLUTIONS & PROTECTION <small>بيل باور سولوشن و پروتېكشن</small>	Title: EMC Declaration of Conformity	Document No. URR.03474	Rev. AF
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List of Product P/N:

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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List of Product P/N:

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	

Part Number Description

	H	P	4	6	60	-9	R	B1	G
Continuous operating input voltage V_i :									
16.8 to 137.5 VDC	H								
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, $V_{o1/4 \text{ nom}}$:									
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				
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			
other ¹						0			
Output voltage adjust (auxiliary function)							R ³		
Options:									
Current sharing							T ²		
UVL (preadjusted $V_{i \text{ min}}$)							Uxx ⁵		
V (rotary switch to adjust $V_{i \text{ min}}$)							V ⁶		
Heatsink 10, 20, 30 mm							B0, B1, B3		
RoHS-compliant for all 6 substances									G

¹ Customer-specific models.

² Only available for single-output powertrains. Option T excludes option R, except for single-output models; refer to table 12.

T is standard for single-output models

³ The R-input influences the first power train only; refer to table 12.

⁴ Models with 220 mm case length. Just add 5000 to the standard model number, e.g. HP3020-9RG → HP8020-9RG.

⁵ For full compatibility with former P Series, the start voltage can be preadjusted depending on the nominal battery voltage. Excludes opt. V.

⁶ Excludes opt. U.

Note: The sequence of options must follow the order above.

Example: HP4660-9RB1G: DC-DC converter, input voltage 16.8 to 137.5 V, 4 outputs providing 24V each, heatsink B1, ambient temperature of -40 to 71 °C, RoHS-compliant.

Note: All models exhibit the following auxiliary functions, which are not reflected in the type designation: input and output filters, primary referenced PUL (programmable undervoltage shutdown with inhibit function), sense lines (single-, double-, triple-output models only), and LED indicators.