

Proprietary Information of:  bel POWER SOLUTIONS & PROTECTION a bel group	Title: EN 50155 Declaration of Conformity	Document No. URR.20100	Rev. A
---	---	----------------------------------	------------------

Declaration of Conformity

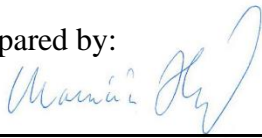
We, Bel Fuse Inc., hereby declare under our sole responsibility that the products herein after referred to are in compliance with the **EN 50155:2017**.

Manufacturer/Address: **Bel Fuse Inc.**
206 Van Vorst Street, Jersey City, New Jersey,
USA 07302

Product: **66 – 132 Watt DC-DC Converters**

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

Standard(s): **EN 50155:2017**
EN 50124-1:2017
EN 50125-1:2014
EN 50121-3-2:2016
EN 50121-4:2016
EN 60529:1991
EN 61373:2010
EN 45545-2:2013+A1:2015

Prepared by: 

Dubnica nad Váhom, Slovakia **07/02/2021**
Marian Hostačný, *(Place)* *(Date)*
Engineering Manager

Approved by: 

Uster, Switzerland **07/02/2021**
Silvan Mueller, *(Place)* *(Date)*
Business Development Manager

Table 2: Compliance status

Subclause	Title	Default requirement	Product compliance
4.3.1	Altitude	Class A1 (1400 metres) Table 1 of EN 50125-1	Fulfilled (2000 m)
4.3.2	Operating temperature	Class OT3 (-25 to +70 degC)	(OT4) fulfilled for version -9 (OT3) fulfilled for version -7
4.3.3	Switch-on extended op. temp.	Class ST1 (Test cycle B)	Fulfilled (ST1)
4.3.4	Rapid temperature variation	Class H1 (No requirements)	Fulfilled (H1)
4.3.5	Shock and Vibration	Category 1; Class B of EN 61373:2010	Fulfilled
4.3.6	Electromagnetic compatibility	In compliance with EN 50121-3-2	Fulfilled
4.3.7	Relative humidity	In compliance with EN 50125-1	Fulfilled
4.4.2	Atmospheric pollutants	No requirements applies by default	Fulfilled (Salt Mist per EN 60068-2-11)
5.1.1.4	Interruption of voltage supply	Class S2 (10 msec)	Fulfilled (S2) With external capacitors defined in Datasheet
5.1.1.6	DC ripple factor	Ripple factor of +/- 5%	Fulfilled (+/-5%)
5.1.3	Supply Change-Over	Class C1	Fulfilled (C1)
5.2.6	Insulation	Follow minimum voltage withstand level (Table 14)	Fulfilled
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	Fulfilled (PD2)
10.1.5	Sockets and Edge connectors	Class K2 (not allowed)	Fulfilled (K2)
10.2.1	Electronic assembly acceptability	Class 2 according to IPC-A-610	Fulfilled (Class 2)
10.7	Protective coatings for PCB's	Class PC2	Fulfilled (PC2)
10.9	Mounting	No IP code requirements applies per EN 60529	Fulfilled (IP30) – Note 1
10.10	Cooling and ventilation	Forced ventilation for cooling is not allowed	Fulfilled (No forced cooling)
11.3	Fire behaviour requirements	Fire behaviour testing shall be according to EN 45545-2.	Fulfilled (Hazard level 3)
12.7.7.3	Programmable component	Class M0	Not Applicable

Note 1:

IP 30: All models, except those with options P (potentiometer)

IP 20: All models with option P

Q Series 66 - 132 W DC-DC Converters



Part Number Description

		C Q 2 5 40 -9 R B1 G
Input voltage $V_{i, nom}$:		
24 V	B	
36 V	G	
48 V	C	
48 V (Telecom, NFND).....	48	
72 V	D	
110 V	E	
Series	Q	
Number of outputs:		
Single output models	1	
Double output models	2	
Single output models (long case) ²	6	
Double output models (long case) ²	7	
Nominal voltage of main output:		
3.3 V	1	
5.1 V	0	
12 V	3	
15 V	5	
24 V	6, 7	
Other voltages	7, 8, 9	
Other specifications and additional features for single output models ³	01 - 99	
Nominal voltage of output 2, $V_{o2, nom}$:		
5.1 V	01 - 09	
12 V	20 - 39	
15 V	40 - 59	
24 V	60 - 79	
Other voltages and additional features ⁵	01 - 99	
Operational ambient temperature range T_A :		
-10 to 50 °C (NFND)	-2	
-25 to 71 °C (option, NFND)	-7	
-40 to 71 °C	-9	
other ³	-0, -5, -6	
Output voltage adjust (auxiliary function)	R	
Options:		
Potentiometer (option, NFND) ¹	P	
No fuse (option)	F	
Additional heatsink	B, B1	
RoHS-compliant for all 6 substances	G	

¹ Option P excludes feature R and vice versa.

² Models with 220 mm case length. Just add 5000 to the standard model number, e.g., CQ2540-9RG → CQ7540-9RG.

³ Customer-specific models.

Note: The sequence of options must follow the order above. This part number description is not intended for creating part numbers.