

Proprietary Information of:  bel POWER SOLUTIONS & PROTECTION <small>a bel group</small>	Title: EN 50155 Declaration of Conformity	Document No. URR.20035	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**.

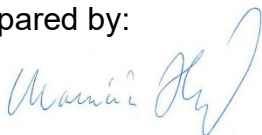
Manufacturer/Address: **Bel Fuse Inc.**
300 Executive Drive, Suite 300
West Orange, NJ 07052
USA

Product: **DC-DC Converter**

Type Designation: **RCM60 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
EN 60529:1991
EN 61373:2010
EN 45545-2:2020
 (Refer to Table 2 listing achieved compliance)

Prepared by:



Dubnica nad Váhom, Slovakia

Oct 8th, 2023

<i>Marian Hostačný,</i> <i>Engineering Manager</i>	<i>Place</i>	<i>Date</i>
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Approved by:



Uster, Switzerland

Oct 8th, 2023

<i>Silvan Mueller,</i> <i>Business Development</i> <i>Manager</i>	<i>Place</i>	<i>Date</i>
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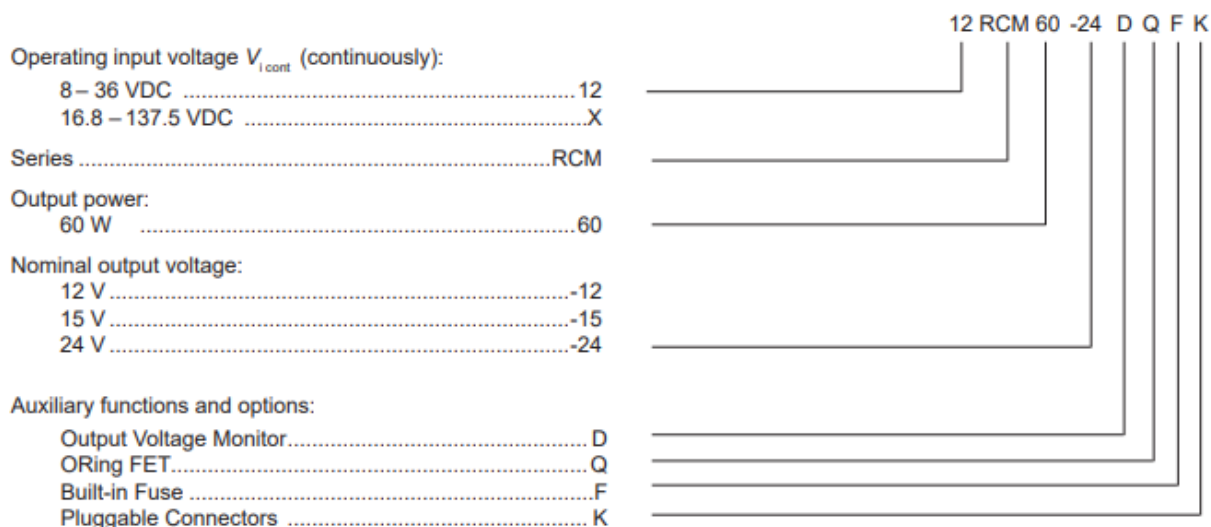
Table 1: List of affected product part numbers

No.	P/N	No.	P/N
1	XRCM60-12	32	XRCM60-12K
2	XRCM60-12D	33	XRCM60-12DK
3	XRCM60-12DF	34	XRCM60-12DFK
4	XRCM60-12DQ	35	XRCM60-12DQK
5	XRCM60-12DQF	36	XRCM60-12DQFK
6	XRCM60-15	37	XRCM60-15K
7	XRCM60-15D	38	XRCM60-15DK
8	XRCM60-15DF	39	XRCM60-15DFK
9	XRCM60-15DQ	40	XRCM60-15DQK
10	XRCM60-15DQF	41	XRCM60-15DQFK
11	XRCM60-24	42	XRCM60-24K
12	XRCM60-24D	43	XRCM60-24DK
13	XRCM60-24DF	44	XRCM60-24DFK
14	XRCM60-24DQ	45	XRCM60-24DQK
15	XRCM60-24DQF	46	XRCM60-24DQFK
16	12RCM60-12	47	12RCM60-12K
17	12RCM60-12D	48	12RCM60-12DK
18	12RCM60-12DF	49	12RCM60-12DFK
19	12RCM60-12DQ	50	12RCM60-12DQK
20	12RCM60-12DQF	51	12RCM60-12DQFK
21	12RCM60-15	52	12RCM60-15K
22	12RCM60-15D	53	12RCM60-15DK
23	12RCM60-15DF	54	12RCM60-15DFK
24	12RCM60-15DQ	55	12RCM60-15DQK
25	12RCM60-15DQF	56	12RCM60-15DQFK
26	12RCM60-24	57	12RCM60-24K

27	12RCM60-24D	58	12RCM60-24DK
28	12RCM60-24DF	59	12RCM60-24DFK
29	12RCM60-24DQ	60	12RCM60-24DQK
30	12RCM60-24DQF	61	12RCM60-24DQFK
31	12RCM60-24F	62	XRCM60-24FKS544

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

Part Number Description



Note: The sequence of options must follow the order above.
 Note: All models are RoHS-compliant for all six substances.

Available combinations of options:
 RCM60-xx (K)
 RCM60-xxD (K)
 RCM60-xxDF (K)
 RCM60-xxDQ (K)
 RCM60-xxDQF (K)

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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 (AX - 3000 meters)
4.4.2	Operating temperature	Table1: Class OT3 (-25 to +71 degC)	Fulfilled (OT4)
4.4.3	Switch-on extended op. temp.	Table2: Class ST1 (Test cycle B)	Fulfilled (ST1)
4.4.4	Rapid temperature variation	Table3: 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 apply 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, 28 V, 36 V, 48 V, 72 V, 96 V, 110 V	Fulfilled (24V, 36V, 48V, 72V, 96, 110V)
5.2.2	Continuous DC power supply range	Table4: 0.7 x Un – 1.25 x Un	Fulfilled (16.8V – 137.5V for XRCM60) (8V – 36V for 12RCM60)
5.2.3	Temporary DC power supply fluctuation	Table4: 0.6 x Un – 1.4 x Un (for 100msec)	Fulfilled (14.4V – 154V for XRCM60) (7.2V – 40V for 12RCM60)
5.2.4	Interruption of voltage supply	Class S2 (10 msec)	Fulfilled (S3 – 20msec)
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	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	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	Fulfilled (IP30)
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