

Proprietary Information of:  <b>POWER SOLUTIONS &amp; PROTECTION</b> a bel group	Title: <b>EN 50155 Declaration of Conformity</b>	Document No. <b>URR.20213</b>	Rev. <b>A</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.**  
**206 Van Vorst Street, Jersey City, New Jersey,**  
**USA 07302**

Product: **Switching Regulator**

Type Designation: **PSS/PSK Series**  
 (Refer to Annex 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 5 listing achieved compliance)

Prepared by:



**Dubnica nad Váhom, Slovakia** **May 14<sup>th</sup>, 2024**  
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*Marian Hostačný,* *Place* *Date*  
*Engineering Manager*

Approved by:



**Uster, Switzerland** **May 14<sup>th</sup>, 2024**  
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*Silvan Mueller,* *Place* *Date*  
*Business Development*  
*Manager*

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### Annex 1: Product part number description PSK/PSS

No.	P/N	No.	P/N
1	PSS489-7	23	PSK28G18-9
2	PSS489-9	24	PSK24Z20A-7
3	PSS369-7	25	PSK24Z20A-9
4	PSS369-9	26	PSK24Z17A-7
5	PSS249-7	27	PSK24Z17A-9
6	PSS249-9	28	PSK24Z10A-7
7	PSS2412-7	29	PSK24Z10A-9
8	PSS2412-9	30	PSK2420-7
9	PSS12Z12B-9	31	PSK2420-9
10	PSS12Z12A-7	31	PSK2416-7
11	PSS129-7	33	PSK2416-9
12	PSS129-9	34	PSK2412-7
13	PSS1212-7	35	PSK2412-9
14	PSS1212-9	36	PSK12Z20A-9
15	PSK4812-7	37	PSK12Z12A-9
16	PSK4812-9	38	PSK1220-7
17	PSK3620-7	39	PSK1220-9
18	PSK3620-9	40	PSK1216-7
19	PSK3616-7	41	PSK1216-9
20	PSK3616-9	42	PSK1212-7
21	PSK3612-7	43	PSK1212-9
22	PSK3612-9		

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

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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	Fulfilled (AX - 2000 metres)
4.4.2	Operating temperature	Table1: Class OT3 (-25 to +71 degC)	Fulfilled T <sub>A</sub> option -7 & T <sub>A</sub> option -9 (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 applies by default	Fulfilled (Salt Mist per EN 50155:2017, 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, 120 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
5.2.3	Temporary DC power supply fluctuation	Table4: 0.6 x Un – 1.4 x Un (for 100msec)	Fulfilled
5.2.4	Interruption of supply voltage	Table5: Class S2 (10 msec)	Fulfilled (S2)
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 tests voltages shall be applied	Fulfilled
10.2.1	Electronic assembly acceptability	Class 2 according to IPC-A-610G	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)
10.10	Cooling and ventilation	Forced ventilation for cooling is not allowed	Fulfilled (No forced cooling)
11.4	Fire behaviour requirements	Fire behaviour 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 programmable components)