AGL Series Isolation Transformer

KR600 & KR500

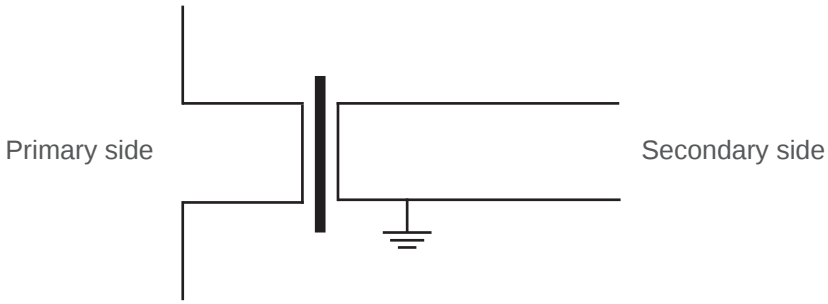
Product datasheet

FAA AC 5345-47, L-830 / L-831, 60 Hz / 50 Hz
EN 61823

EFLA is the leading manufacturer of high-quality series isolating transformers, connector kits and prefabricated cable assemblies for Airfield Ground Lightning. EFLA offers a broad range of standard products as well as customized solutions. EFLA products have been manufactured for over 30 years in Finland. EFLA is an ISO 9001 and ISO 14001 certified company.

KR600 & KR500 with or without earthing (grounding)

EFLA supplies transformers with or without earthing. The earthing is connected to the end of the secondary winding in the side of the larger socket. This means that the thicker pin is grounded to the secondary side.



Primary leads

- The transformers have two primary leads with the standard length of 0.6 m and a cross section of 6 mm2
- One of the leads is with a FAA L-823, Style 2 Plug
- The other lead is with a FAA L-823, Style 9 Receptacle
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Secondary leads

- The transformers have one secondary lead with the standard length of 1.2 m and a cross section of 2.5 mm2
- The secondary cable is rated to 600 V
- The secondary lead is with a FAA Style 8 Receptacle

Pins and sockets

The contact parts are tin-plated brass. In addition, the sockets are supplied with a copper beryllium sleeve-type spring to ensure an adequate contact pressure.

Special and Customized Transformers

On the top of our standard 6.6/6.6 A series isolation transformers, EFLA also delivers customized transformers with e.g. special ratings based on different project specifications, e.g. 6.6/2.2 A, 2.2/2.2 A, and other ratings case by case.

The transformers can also be equipped with different cable lengths and with different connectors, e.g. FAA Style 7 connectors for the secondary side.

Encapsulation materials

These series isolation transformers can be trusted to operate with top performance and not only in the normal and friendly environments, but in extreme conditions of airfields from hot to cold, from under water to be frozen. All our products are encapsulated with materials that have excellent electrical and mechanical properties and very good resistance to chemicals, especially to those that are used at airfields. They have also very good resistance to weathering, UV-radiation and ozone exposure. The materials are also resistant to the effects of temperature (below 135^{o}C, 275 F).

Electrical information

EFLA Type with Earthing	EFLA Type without Earthing	FAA Type	Rated Power [W]	Rated Current [A]	Power Range [W]	Load [Ω]	Efficiency [%]	Power Factor
KR621	KR621.1	L-830-16 L-831-16	10/15	6.6/6.6	10-15	0.34*	> 70	> 0.97
KR625	KR625.1	L-830-17 L-831-17	20/25	6.6/6.6	20-25	0.57*	> 70	> 0.97
KR631 KR531	KR631.1 KR531.1	L-830-1 L-831-1	30/45	6.6/6.6	25-60	0.57-1.38	> 85	> 0.97
KR636 KR536	KR636.1 KR536.1	L-830-3 L-831-3	65	6.6/6.6	50-85	1.15-1.95	> 85	> 0.97
KR641 KR541	KR641.1 KR541.1	L-830-4 L-831-4	100	6.6/6.6	80-125	1.84-2.87	> 85	> 0.97
KR646 KR546	KR646.1 KR546.1	L-830-18 L-831-18	150	6.6/6.6	120-178	2.75-4.13	> 90	> 0.97
KR651 KR551	KR651.1 KR551.1	L-830-6 L-831-6	200	6.6/6.6	160-230	3.67-5.28	> 90	> 0.97
KR661 KR561	KR661.1 KR561.1	L-830-10 L-831-10	300	6.6/6.6	220-338	5.05-8.25	> 90	> 0.97
KR681	KR681.1		500	6.6/6.6	400-523	12.00*	> 90	> 0.97

Leakage inductances

EFLA Type with Earthing	EFLA Type without Earthing	Power [W]	Short Circuited voltage [V]	L (magn) [mH]	L (leak) [µH]
KR621	KR621.1	10/15	< 6.7	13.0	< 20
KR625	KR625.1	20/25	< 6.7	13.0	< 20
KR631	KR631.1	30/45	< 6.7	16.0	< 30
KR636	KR636.1	65	< 6.7	19.0	< 40
KR641	KR641.1	100	< 6.7	14.0	< 40
KR646	KR646.1	150	< 6.7	24.0	< 50
KR651	KR651.1	200	< 6.7	25.0	< 60
KR661	KR661.1	300	< 6.7	35.0	< 100
KR681	KR681.1	500	< 6.7	64.0	< 130

EFLA YOUR AGL PARTNER

EFLA shields electrical connections – especially in the most demanding environments.We manufacture highly specialized components including transformers, connector kits, encapsulated electronics components and prefabricated cable assemblies for airfield ground lighting and other applications. Our story began over 30 years ago in Finland in northern Europe. Today we are one of the largest suppliers in this niche field with a true global footprint covering all continents. Our products can be found on most international airports around the world.

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