

L830 Series Isolation Transformers



Application

Integro FAA Approved Series Isolation Transformers are used to isolate high operating voltages for constant current airfield lights in a series circuit. They are encapsulated and designed to operate efficiently while submerged in water. They are approved to operate between - 55 C and + 65 C and can be installed above ground, in metal cans or direct buried.

Where They are Used

Integro Series Isolation Transformers are installed at most major airports in the United States and Mexico, as well as in many countries in South America, Europe, Asia and Africa. Our American made Series Isolation Transformers are also preferred at many military airports in the United States.

Approvals and Testing

Integro Series Isolation Transformers are approved to the FAA L-830 specification and are certified by Intertek Testing Labs to FAA Advisory Circular 150/5345-47. All **Integro** Transformers undergo 100% Quality Testing which includes visual inspection, heat testing and HIPOT testing after heating and 12 hour soaking.

Design

Integro Series Isolation Transformers are wound for 6.6 and 20 Amp primary circuit applications. They are encapsulated in thermoplastic rubber for superior durability and dielectric strength and are manufactured with 2 primary and 1 secondary FAA L-823 listed leads.

The leads are:

Style 2 – Male Primary Lead on 8/1 cable, 24” long

Style 9 – Female Primary Lead on 8/1 cable, 24” long (Both leads are rated 25 Amps and 5,000 Volts)

Style 8 – Female Secondary Lead on 12/2 SOW cable, (rated 20 Amps and 600 Volts), 48” long

FAA Designation	Integro Part #	Wattage	Primary/ Secondary Amps	Design Frequency (Hz)	Weight (in lbs)
L830-16	11717	10/15W	6.6 / 6.6	60	3.6
L830-17	11729	20/25W	6.6 / 6.6	60	3.6
L830-1	11680	30/45W	6.6 / 6.6	60	4.2
L830-2	11681	30/45W	20 / 6.6	60	4.2
L830-3	11682	65W	6.6 / 6.6	60	4.5
L830-4	11683	100W	6.6 / 6.6	60	8.5
L830-5	11684	100W	20 / 6.6	60	8.5
L830-18	11730	150W	6.6 / 6.6	60	8.5
L830-19	11731	150W	20 / 6.6	60	8.5
L830-6	11685	200W	6.6 / 6.6	60	10.3
L830-7	11686	200W	20 / 6.6	60	10.3
L830-10	11736	300W	6.6 / 6.6	60	11.5
L830-11	11760	300W	20 / 6.6	60	12.5
*L830-9	*11516	300W	20 / 20	60	12.5
*L830-14	*11517	500W	6.6 / 6.6	60	18.5
*L830-15	*11529	500W	20 / 6.6	60	18.5
*L830-13	*11506	500W	20 / 20	60	18.5

* Not Pictured.

L831 Series Isolation Transformers



Application

Integro FAA Approved Series Isolation Transformers are used to isolate high operating voltages for constant current airfield lights in a series circuit. They are encapsulated and designed to operate efficiently while submerged in water. They are approved to operate between - 55 C and + 65 C and can be installed above ground, in metal cans or direct buried.

Where They are Used

Integro Series Isolation Transformers are installed at most major airports in the United States and Mexico, as well as in many countries in South America, Europe, Asia and Africa. Our American made Series Isolation Transformers are also preferred at military airports in the United States.

Approvals and Testing

Integro Series Isolation Transformers are approved to the FAA L-831 specification and are certified by Intertek Testing Labs to FAA Advisory Circular 150/5345-47. All **Integro** Transformers undergo 100% Quality Testing which includes visual inspection, heat testing and HIPOT testing after heating and 12 hour soaking.

Design

Integro Series Isolation Transformers are wound for 6.6 and 20 Amp primary circuit applications. They are encapsulated in thermoplastic rubber for superior durability and dielectric strength and are manufactured with 2 primary and 1 secondary FAA L-823 listed leads.

The leads are:

Style 2 – Male Primary Lead on 8/1 cable, 24” long

Style 9 – Female Primary Lead on 8/1 cable, 24” long (Both leads are rated 25 Amps and 5,000 Volts)

Style 8 – Female Secondary Lead on 12/2 SOW cable, (rated 20 Amps and 600 Volts), 48” long

FAA Designation	Integro Part #	Wattage	Primary/ Secondary Amps	Design Frequency (Hz)	Weight (in lbs)
L831-16	11732	10/15W	6.6 / 6.6	50	3.6
L831-17	11733	20/25W	6.6 / 6.6	50	3.6
L831-1	11710	30/45W	6.6 / 6.6	50	4.2
L831-2	11723	30/45W	20 / 6.6	50	4.2
L831-3	11712	65W	6.6 / 6.6	50	4.5
L831-4	11683	100W	6.6 / 6.6	50	8.5
L831-5	11714	100W	20 / 6.6	50	8.5
L831-18	11734	150W	6.6 / 6.6	50	8.5
L831-19	11731	150W	20 / 6.6	50	8.5
L831-6	11715	200W	6.6 / 6.6	50	10.3
L831-7	11716	200W	20 / 6.6	50	10.3

ICAO Style Earthed Series Isolation Transformers 50 Hz and 60 Hz



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Where They are Used

Integro ICAO Style Earthed Series Isolation Transformers are tested in accordance with the FAA L830 (60 Hz) and L831 (50 Hz) specifications per FAA Advisory Circular 150/5345-47. All **Integro** Earthed Transformers undergo 100% Quality Testing which includes visual inspection, heat testing and HIPOT testing.

Design

Integro ICAO Style Earthed Series Isolation Transformers are equipped with an earthed stud for grounding in the field. Although earthed transformers are not listed under FAA guidelines, Integro earthed transformers are manufactured in accordance with L830 (60 Hz) or L831 (50 Hz) specifications.

Design Frequency = 60Hz

Integro		Primary/ Secondary	Weight
Part #	Description	Amps	(in lbs)
11717-G	10/15W	6.6 / 6.6	3.6
11729-G	20/25W	6.6 / 6.6	3.6
11680-G	30/45W	6.6 / 6.6	4.2
11681-G	30/45W	20 / 6.6	4.2
11682-G	65W	6.6 / 6.6	4.5
11683-G	100W	6.6 / 6.6	8.5
11684-G	100W	20 / 6.6	8.5
11730-G	150W	6.6 / 6.6	8.6
11731-G	150W	20 / 6.6	8.6
11685-G	200W	6.6 / 6.6	10.3
11686-G	200W	20 / 6.6	10.3
11736-G	300W	6.6 / 6.6	11.5
11760-G	300W	20 / 6.6	12.5
11755-G	300W	20 / 20	12.5
11517-G	500W	6.6 / 6.6	18.5
11529-G	500W	20 / 6.6	18.5
11506-G	500W	20 / 20	21.5

Design Frequency = 50Hz

Integro		Primary/ Secondary	Weight
Part #	Description	Amps	(in lbs)
11732-G	10/15W	6.6 / 6.6	3.6
11733-G	25W	6.6 / 6.6	3.6
11710-G	30/45W	6.6 / 6.6	4.2
11723-G	30/45W	20 / 6.6	4.2
11712-G	65W	6.6 / 6.6	4.5
11683-G	100W	6.6 / 6.6	8.5
11714-G	100W	20 / 6.6	8.5
11734-G	150W	6.6 / 6.6	8.6
11731-G	150W	20 / 6.6	8.6
11715-G	200W	6.6 / 6.6	10.3
11716-G	200W	20 / 6.6	10.3
11901-G	300W	6.6 / 6.6	11.9

The leads are:

Style 2 – Male Primary Lead on 8/1 cable, 24" long

Style 9 – Female Primary Lead on 8/1 cable, 24" long
(Both leads are rated 25 Amps and 5,000 Volts)

Style 8 – Female Secondary Lead on 12/2 SOW cable,
(rated 20 Amps and 600 Volts), 48" long