

ADB

1500W, 20A/20A Isolation Transformer



Compliance with Standards

FAA: Designed according to FAA-E-2690a

Uses

Designed for use in airfield lighting systems to isolate lower voltage lamps from the high operating voltages present on airfield series lighting circuits.

Features

- Advanced core/coil construction designed to have a low impedance to higher frequency communication signals. Performance verified when connected to the NBP ALSF-2 lamps-out powerline carrier monitoring system.
- Meets FAA-E-2690a performance requirements with up to a 1800W load to allow for power consumed by monitoring devices and/or external secondary wiring
- Exceeds 15kVDC insulation resistance requirements of FAA-E-2690a
- Quick and easy connection by means of factory-molded L-823 plugs and receptacles
- Two single-conductor primary cables (10 AWG, 5,000V) with a molded Style 2 plug on one lead and a molded Style 9 receptacle on the other lead; one two-conductor secondary cable (12 AWG 600V) with Style 8 two-pin receptacle
- Includes an attached lifting handle
- Operating temperature range: -67°F (-55°C) to +158°F (+70°C)

ADB Ordering Code

35A0675

FAA NSN

8200-00-003-0041-1

Electrical Supply

- Operates only at 60Hz on series circuits rated up to 5,000V AC

The primary windings of the transformer are connected in a 20A series circuit supplied by a constant current regulator. The continuity of the series lighting loop is maintained even if one or more lamps supplied by individual isolation transformer secondaries are open-circuited due to lamp failures. In addition, there is a complete separation of the high-voltage primary and low-voltage secondary windings.

Electrical Performance

Capacity:	1800W
Primary Current:	20A
Power Factor:	≥ 0.90
Efficiency:	≥ 0.95%
Frequency:	60Hz
Secondary full load current:	19.8-20.2A
Secondary short-circuited current:	20-22A
Maximum secondary open-circuit voltage:	848.5V peak-peak
Voltage rating:	Primary 5,000V RMS Secondary 600V RMS
Weight:	62 lbs (28 kg)

Mechanical

Transformer Body Dimensions (Excluding Leads and Handle)

Width:	8 inches
Depth:	8.75 inches
Height:	8.75 inches
Diagonal (max):	11.25 inches

The information contained in this document is subject to change without notice. ADB reserves the right to make changes and improvements to its products and assumes no responsibility for making these modifications on any equipment previously sold.

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No Manual

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