



115V AC EL Lighting Controller

6744 Series



EL LOAD	OUTPUT SUPPLY	3
	OUTPUT RETURN	13
	LIVE SUPPLY	9
	NEUTRAL	11
	CHASSIS GND	5
	POT SUPPLY	31
10K	CONTROL	33
	POT RETURN	35

The Lighting Controller is an electronic control unit which is designed for use with AC Electroluminescent lighting panels. It utilises the 115v 400Hz single phase supply and provides a continuously variable AC output which can be connected to a number of EL panels linked in parallel. The brightness of the EL panels are controlled by a remote panel mounted potentiometer.

The EMC performance of the unit is very good due to the sinusoidal nature of the output waveform. This waveform has been tailored to give the maximum life performance from the electroluminescent panels.

The mechanical arrangement of the Lighting Controller consists of an aluminium alloy case, which houses a PCB assembly, supports a single circular electrical connector and incorporates four mounting feet. The unit has a black paint finish and the bonding is achieved by keeping clear an area around one of the mounting feet. The unit is sealed to meet the BC contamination requirements.

The unit carries a worldwide patent due the unique design concept developed at Ultra, which allows for large EL loads to be driven with very little internal power dissipation.

Typical applications are in the EFA Eurofighter, BAe Hawk, and BAe Tornado aircrafts.

Features

- Operating Temperature: -54°C to +90°C
- EMC Compatibility: Approved to MIL-STD-461D
- Input Voltage: 115V at 400Hz to BS3G100 Part 3
- Output Voltage: <20V to 115V at 400Hz variable
- Output Rating: 440 or 650in² of EL Panel base on 1.36mA/in² at 25°C
- Finish: Paint Matt Black to DTD 5580
- Dimensions: 160 x 120 x 50mm
- Weight: 1100g max.



Ultra Electronics reserves the right to vary these specifications without notice.

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Printed in England
Insert imprint code

Ultra Electronics

Precision Control Systems - Cheltenham
Arle Court, Hatherley Lane
Cheltenham
Gloucestershire GL51 6PN
England
Tel: +44 (0)1242 221166