



2G11 Fluorescent Lamp Replacement



Product Overview

- Rolling Stock Compliant.
- Replaces PLL Fluorescent lamps.
- High reliability LED and driver technology.
- Built in drive electronics for direct connection to power source.
- Significant energy savings.
- Zero maintenance costs.
- Flicker free lighting with instant start.
- No mercury content, environmentally friendly.

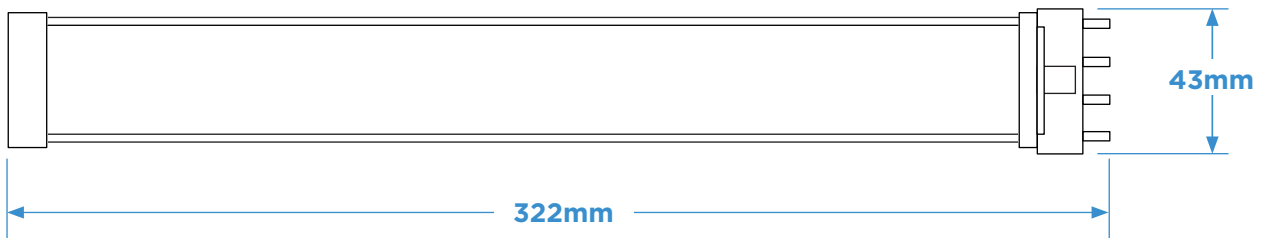
Safety Specifications

- DC input voltage reversal (non-destructive)
- Input transient protection
- Under voltage protection
- Built in multiple LED circuit redundancy
- Protected against power supply interruptions

Technical Overview

Input Voltage Range	24VDC/110VDC
Input Current at Nominal Supply	100 mA \pm 5%
Input Power at Nominal Supply	10w/16w/18w
CRI	>80
Beam Angle	180°
Operating Temperature Range	-25 to 55°C
Storage Temperature Range	-25 to 55°C
Operating Humidity Range	10%-80%
Lumen Maintenance (time to 70% of the initial light output)	65,000 hours
MTBF MIL-HDBK-217F (40°C) (hrs)	100,000 hours
Sealing Rating	IP40
Switch Cycles	>100,000 (UIC555)
Connector	2G11 4pins

Mechanical Details



Compliance

The 1084 Series product complies with the following standards and directives:

EN61373:2010	Rolling stock equipment. Shock and vibration.
EN50121-3-2:2015	Rolling stock equipment. Electromagnetic compatibility.
EN50155:2007	Electronic equipment used on rolling stock.
EN45545	Fire protection on railway vehicles.
EN62031 with EN62471:	Photobiological Safety of Lamps
ROHS	Restriction of Hazardous Substances

This is a draft specification, figures may change due to further testing.

