



POWER RAIL

AUSTRALIA

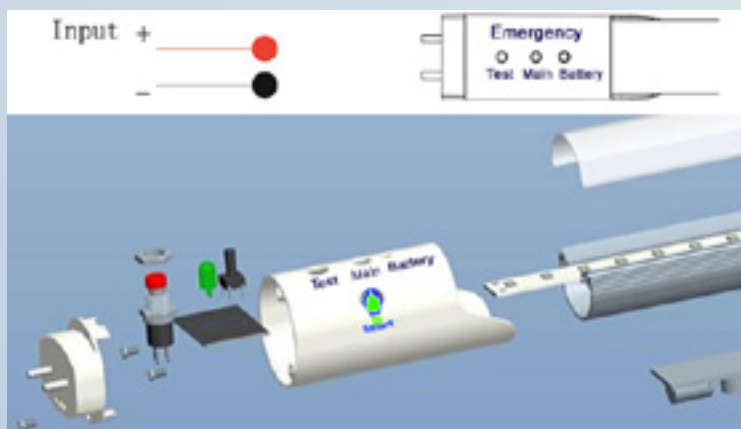
PowerRail Australia
Phone: 1-800-PRD-AU0
1-800-772-280

Email: Sales@ePowerRail.com.au

Uniting Innovation, Engineering, Manufacturing, and Distribution

Emergency Lighting Solution

PowerRail's Emergency Backup LED Tube Light is the only single-unit emergency LED on the market with its own enclosed lithium-ion backup supply. Able to operate on various voltages (77v to 277v), this product is suited for use in open or enclosed luminaires where backup power is required in the event of an emergency.



**No Charger Ballast or
External Battery**

**No External Power Supply
or Wiring Required**

- **Blackout & Brownout Protection** – During a Brownout (drop in voltage or electrical power supply), due to the unique design, the light will illuminate consistently from 70v AC to 277v AC, meaning no flickering. If there is a Blackout (i.e. loss of electrical supply due to power station tripping), PowerRail's Emergency Backup Light will work continuously for up to 4 hours.
- **Weather & Waterproof** – This self-contained unit has aircraft-grade aluminium for the best heat dissipation, which means the light will endure external temperature highs in excess of 55°C. With idiosyncratic lens/reflector (melts ice and snow), this product is perfectly suited for commercial refrigerators and cold climates to -50°C.
- **Single Component & Easy Install** – PowerRail's Emergency Backup Light is a single unit that does not require maintenance to individual components or external wiring. Other emergency power options are large bulky solutions with multiple components that require new/invasive hardware (fittings) upon installation. Generally, these units are expensive to install and replace as the battery and charge components have a limited lifetime and are installed in the roof or located elsewhere.
- **Lithium-ion Battery Technology & Embedded Sensor** – Fitted with a custom lithium-ion battery that requires replacement every 5 years, PowerRail's Emergency Backup Light is powered with an embedded sensor for detecting a power failure.
- **Recyclable** – Most of our competitors use virgin materials and do not recycle. PowerRail's Emergency Backup Light is the only product on the market that is 90%+ recyclable, reusable, and manufactured responsibly. To reduce landfill contamination, PowerRail is working toward ensuring the product is 100% recyclable by 2021.
- **AS/NZ2293 and ASNZ3000 Standards** – PowerRail's Emergency Backup Light complies with relevant building standards and can easily replace standard non-emergency LED lights.



www.PowerRailAustralia.com.au

Operating Characteristics and Product Description

- Standard Tube Application Replacement - NO additional wiring or external power supply required. Various lengths available.
- Standard Colour Temperature: 4,000K (many other options available)
- Operates at 18W on Main Input Voltage / 6W on Battery Voltage
- Standard light output 18W 1,980 Lumen's @ 4,000K CCT
- Emergency light output 6W 660 Lumen's
- Input Voltage: 12V to 75V DC or 90 - 277V AC
- Battery fully charged after 120 minutes
- Battery Backup "ON" Time: up to 4 hours
- Battery Lithium Polymer 1500mAh, supplying long life and best performance
- Sleeve flammability standard V-0 level
- Ingress protection IP68
- CRI: ≥ 80
- Power Factor (PF): ≥ 0.92
- Operating Environmental Conditions: -10°C to $+55^{\circ}\text{C}$
- Battery Cycle 500 times (same as smart phones)
- Isolated Driver: MCPCB
- Warranty: 3 yrs

Previously, indoor commercial/industrial lighting was predictably linear fluorescent lights (LFLs). Over-time, the industry adopted the use of T12 tubes, which gave quality light output with a good lifespan.

Most recently, the industry has progressed to T8 lamps, which use about 40% less energy than the T12s. Now there is a new player in the commercial lighting arena that promises even better efficiency...

PowerRail's Emergency Backup T8 LED Tube Light.

Why switch to PowerRail T8 LED Tubes?

Mercury Free – Unlike fluorescent lights, LEDs contain no mercury, making them safer for the environment

Environmental – Both our Standard and Emergency LED Tubes are fully Recyclable

Dimmable – Full dimming capabilities, while standard LFLs are expensive to dim and do it so poorly

Directional – Offers directional light (illumination exactly where you need it), while fluorescents have multi-directional light where some light gets lost in the fixture and other unnecessary places

Works Well with Controls – Works perfectly with control systems; lifespan is not affected by turning them on/off, compared to fluorescent lights which tend to burn out faster when integrated with occupancy sensors and other controls.

More Efficient – Approximately 30% more efficient than T8 LFLs

Quality Lights – Produces light in a variety of colour temperatures, but without the flickering issues that can happen with fluorescent

Longer Lifespan – 50,000+ hours vs. 30,000 hours for an average LFL

Shatterproof - Made with a shatterproof coating and are IP67 rated, if required

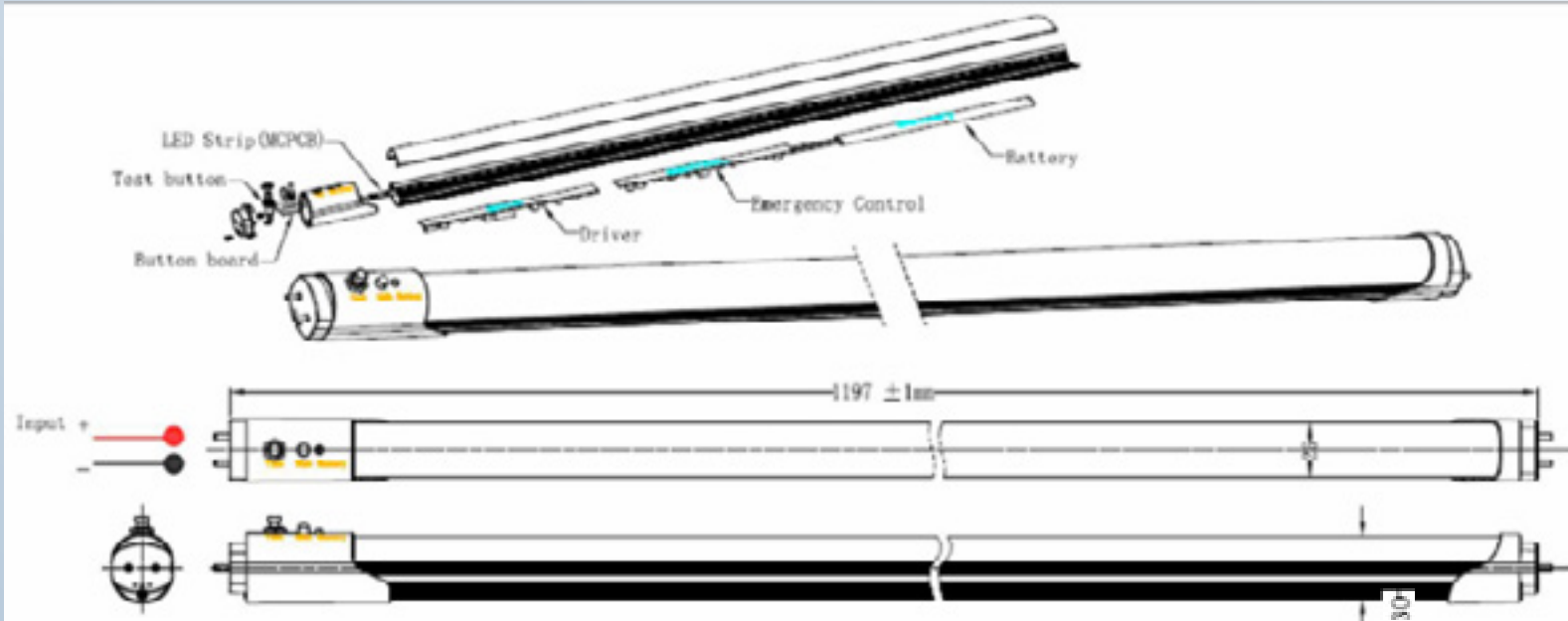
Existing fittings - Can be easily retrofitted to your existing light fitting, saving money on the cost of fittings and installation



www.PowerRailAustralia.com.au

How it Works

The PowerRail T8 LED Tube has an internal driver and is wired to the main voltage, bypassing the existing fluorescent ballast. The ballasts can be removed from the fixture or bypassed, and the sockets are wired directly to the line voltage. We offer both double-end and single-end wired tubes.



Although the initial investment into T8 LEDs is higher than LFLs, the savings in both energy costs and maintenance will provide the benefit and ROI in the long run, and potentially sooner than you would expect. PowerRail can help you with a cost/benefit analysis and ensure you consider all factors when deciding between LFL and LED bulbs.

Benefits

- **No Wasted Power** – PowerRail T8 LEDs are more efficient, since no power is wasted in the ballast.
- **Compatibility with Other Lighting Systems** – If you have emergency lighting built into your fluorescent fixtures, the PowerRail T8 LED tube option will work with the existing fitting, but will remove the charger and battery.
- **Reduce Running and Maintenance Costs** – By eliminating the ballast and potentially the charger and battery, there will be less parts to maintain in the future.
- **Options** - Offers the most options in terms of bulb length (2' to 8') and an assortment of wattage/lumen packages.

