

240/42V DUAL VOLTAGE LED SIGNAL LANTERN

A high quality 240/42V AC operated / IP65 Rated LED signal lantern.

As 42V AC is rated ELV, traffic operators and on-site installers avoid the risk of electrical contact. As most of the intersections operate on 240V AC Aldridge has developed a 240/42V AC Dual Voltage LED traffic lantern to make the transition progressive.

FEATURES

- Selectable voltage between 240V & 42V AC
- Available in Aluminium, Polycarbonate and Recyclable Go Green Enviro Housing
- Dual stage connection for simple installation
- Fused 42V AC input for overvoltage protection
- Wide temperature tolerance –from -15°C ~ +60°C
- Lamp failure monitoring and shutdown system
- Linear dimming on both 240V and 42V operation
- Uniform luminous intensity
- Low sun phantom
- IP65 rated enclosure - Dust and moisture resistant
- Designed for AS-2144
- Retrofit optics available

Power Performance

Aldridge LED signal consumes less power than a conventional halogen lamp, allowing a massive reduction of 89% in operating cost.

Optical Performance

The Aldridge LED signal ensures uniform luminous distribution. Each aspect presents a pattern of light points that are uniformly distributed across the circular aperture, which results in a constant light source without variation when viewed from any angle within the viewing range.



Lamp Monitoring

Aldridge LED signals have integrated lamp failure monitoring to the requirements of AS-2144. If 20% LEDs fail in any aspect of signal or Luminous Intensity drops less than 80%, the aspect will shut down automatically.

Low Output Degradation

Aldridge LED signals are driven at very low current. Hence have very low output degradation over long period of time.

Light Output Dimming

Aldridge LED lanterns can achieve light dimming by controlling input voltage magnitude or phase. The signals have linear dimming characteristics.

NORMAL VOLTAGE	240V AC	42V AC
DIMMING VOLTAGE RANGE	110 ~ 240V	19 ~ 42V
MAX. OPERATIONAL VOLTAGE	280V	49V
SHUT DOWN VOLTAGE	110V	19V



SPECIFICATIONS

TECHNOLOGY	High Intensity LED
OPERATING TEMPERATURE	-15°C ~ +60°C
LANTERN ENCLOSURE	IP65
LANTERN CONNECTOR	IP68
NORMAL OPERATING VOLTAGE	42V AC 240V AC
DIMMING VOLTAGE RANGE	19 ~ 42V AC 110 ~ 240V AC
DIMMING LUMINANCE RANGE	0 ~ 100 % 0 ~ 100 %
SAFETY SHUT DOWN VOLTAGE	19V AC 110V AC
POWER FACTOR	>0.97
POWER CONSUMPTION	10 ~15 W
SWITCH-OFF TIME	<120ms

BENEFITS

- Safety Consideration
- Substantial energy and cost saving
- Long reliable service life
- Low maintenance
- Uniform light illumination
- Enhanced dust and moisture protection
- Dual Voltage LED Lantern will make transition progressive between 240V and 42V and there will be direct benefits of Purchasing, Installation, Warehousing and Stock Control

ACCESSORIES

Aldridge Vehicle lanterns are available with a full range of accessories including:

- One, two and three aspect lantern housing
- Target boards with white border
- Target boards without border
- 250mm, 300mm and 400mm mounting straps
- Front Visor and Louvre