

# 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 ATS has developed a 240/42V AC Dual Voltage LED traffic lantern to make the transition progressive.

## FEATURES

- Selectable voltage between 240V & 42V AC
- Dual stage connection for simple installation
- Fused 42 AC input for overvoltage protection
- Wide temperature tolerance –from -15°C to +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/NZS2144:2002
- 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/NZS2144:2002. 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.

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

## SPECIFICATIONS

<b>TECHNOLOGY</b>	High Intensity LED
<b>OPERATING TEMPERATURE</b>	-15°C to +60°C
<b>LANTERN ENCLOSURE</b>	IP65
<b>LANTERN CONNECTOR</b>	IP68
<b>NORMAL OPERATING VOLTAGE</b>	42VAC 240VAC
<b>DIMMING VOLTAGE RANGE</b>	19 – 42VAC 110 – 240VAC
<b>DIMMING LUMINANCE RANGE</b>	0 ~ 100 % 0 ~ 100 %
<b>SAFETY SHUT DOWN VOLTAGE</b>	19VAC 110VAC
<b>POWER FACTOR</b>	>0.97
<b>POWER CONSUMPTION</b>	10 ~15 W
<b>SWITCH-OFF TIME</b>	<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 42 V and there will be direct benefits of Purchasing, Installation, Warehousing and Stock Control

## ACCESSORIES

ATS 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