



Low Profile Dome Light with Backup Battery

The IDLS LED based dome light is designed to provide general purpose illumination within armored vehicles. Two operation modes are available, WHITE light mode and Red (or blue or green) light mode. The design utilizes solid state technology and a constant current drive circuit to achieve a consistent and economical light output at an input range of 18...32VDC.

The IDLS control circuitry is based on a microcontroller which controls all functionalities of the module. Operation mode is selectable through a push button. Light intensity is controllable from 1% to 100%. The product is designed to meet the rigorous requirements of military ground vehicle environments.

Features:

- * **Two light colors available** – White and Red (or blue or green) selectable through a push button.
- * **Simple mounting** – Mounted by 4 screw hole.
- * **Receptacle type** – The unit utilizes 1 pin receptacle or customer specific connector
- * **Backup Battery** – Active while mains is disconnected or during vehicle power supply failure event. Light color is selectable through a push button.
- * **White Illumination** – At a distance of 1m from target, the lamp provides a main illumination footprint in area larger than 1m x 1m, with a value greater than 60Lux on 0-0 axis dropping to 40Lux at the edges.
- * **Dimming control** – Dimming is accomplished through a potentiometer.
- * **Vehicle's battery monitoring** – When the vehicle's battery voltage falls below a predetermined value (21.5V) the system automatically shifts to low voltage visual alert.

Product No. PA210004 - Technical Specifications

Input Voltage	18-32VDC
Input Current	200mA
Power Consumption	4.8 Watts
Input Over Voltage Protection	included
Input Reverse Voltage Protection	included
Built-In EMI RFI filter, low noise	MIL-STD-461E
Light source	LEDs
White Light Output (at 1 meter)	minimum 60 Lux @ center
Red Light Output (at 1 meter)	minimum 5 Lux @ center
Dominant Wavelength	625nm
Light Beam Angle	100°
Intensity control (White & Red)	1-100%
Operating temperature range	-40°C to +71°C
Dimensions	Drawing No. PA210004
Weight	670g (1.5lbs)

Receptacle pin-out

Receptacle PIN	(+) 28VDC
Chassis	(-) Return