## LED Replacement Bulbs (12V): 12V G4 LED Disks

## For reading lights, recessed lights, etc.

These G4 disks come in several models (12V or 24V) and are ideal for replacing your existing incandescent or halogen bi-pin bulbs. Unique, cutting-edge, internal circuitry and the highest quality components make Dr. LED's the longest lasting, most energy-efficient LED products on the market. These high-quality LED disks produce warm white or blue or red lights and are the perfect way to reduce energy consumption on your boat. They have a long service life, are shock-resistant, and UV, lead, and mercury-free. These LED disks are ideal for cockpit lights; map reading lights, emergency lights, etc. They produce a flood-type beam and work well in many light fixtures.

## Both axial (center) and radial (side) connection pins are provided. Cut off the pins that are not utilized.

Features

- Soothing warm white or blue or red lights.
- Zero radio frequency (RF) emission, surface-mount-device design.
- Designed for the marine environment with high-quality SMD components.
- Conformal coated & use of long life components, e.g. use of a ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides constant current draw regardless of voltage fluctuations from the source, meaning no flickering and longer LED life.
- Long service life, shock-resistant, ultra-rugged with no filament to burn out or break.
- Very low power consumption. Dimmable with most PWM dimmers. Designed in the USA.

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	G4 LED Disk 12V	Red G4 LED Disk 12V	Blue G4 LED Disk 12V
Part #	9000081	9000098	9000364
Description	For reading and recessed lights	For reading and recessed lights	For reading and recessed lights
Bulb Type	G4	G4	G4
Connection	Bi-Pin	Bi-Pin	Bi-Pin
LED Color	Warm White	Red	Blue
Voltage (V)	12 VDC	12 VDC	12 VDC
Current (A)	0.13A	0.05 A	0.13A
Watt Replacement	20W equivalent	10W equivalent	10W equivalent
Lumen Rating	120 Lumens	30 Lumens	30 Lumens
Dimensions	6mm (0.24") thick 30mm (1.2") dia.	6mm (0.24") thick 30mm (1.2") dia.	6mm (0.24") thick 30mm (1.2") dia.

# LED Replacement Bulbs (24V): 24V G4 LED Disks For reading lights, recessed lights, etc.

	G4 LED Disk 24V	Blue G4 LED Disk 24V
Part #	9000340	9000418
Description	For reading and recessed lights	For reading and recessed lights
Bulb Type	G4	G4
Connection	Bi-Pin	Bi-Pin
LED Color	Warm White	Blue
Voltage (V)	24 VDC	24 VDC
Current (A)	0.07A	0.07A
Watt Replacement	20W equivalent	10W equivalent
Lumen Rating	120 Lumens	30 Lumens
Dimensions	6mm (0.24") thick 30mm (1.2") dia.	6mm (0.24") thick 30mm (1.2") dia.



US Patent 7,847,486

## LED Replacement Bulbs (12/24V): G4 LED Tower and Mini G4 Star

#### For reading lights, recessed lights, etc.

## PN: 9000104

### PN: 9000432

The 12/24V G4 Tower and 12/24V Mini G4 LED bulbs are ideal for replacing your existing incandescent or halogen bi-pin G4 bulbs. Unique, cutting-edge, internal circuitry and the highest quality components make Dr. LED's the longest lasting, most energy-efficient LED products on the market. These high-quality bulbs produce warm white light and are the perfect way to reduce energy consumption on your boat. These have long service life, are shock-resistant, and UV, lead, and mercury-free. These bulbs are ideal for cockpit lights, map reading lights, emergency lights, etc. They produce a radial 360-degree beam and work well in many light fixtures.

#### Features

- High-Power LED 10-30 VDC Warm White
- Soothing warm white light.
- Surface-mount-device design.
- Encapsulated & use of long life components, e.g. use of a ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides constant power draw regardless of voltage fluctuations from the source, meaning no flickering and longer LED life.
- Long service life, shock-resistant, ultra-rugged with no filament to burn out or break.
- Very low power consumption
- Lead and mercury free, no UV output.
- Dimmable with most PWM dimmers.
- Designed in the USA.

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	G4 Tower 12/24V	Mini G4 Star 12/24V
Part #	9000104	9000432
Description	For reading lights, etc.	For reading, recessed, etc.
Bulb Type	G4	G4
Connection	Bi-Pin	Bi-Pin
LED Color	Warm White	Warm White
Voltage (V)	10-30 VDC	10-30 VDC
Current (A)	0.2A @ 12V, 0.1A @ 24V	0.1A @ 12V, 0.05A @ 24V
Watt Replacement	30W equivalent	10W equivalent
Lumen Output	300 Lumens	120 Lumens
Dimensions	37mm (1.5") long 13mm (0.5") dia.	22mm (0.87") length 10mm (0.39") dia.