

LIGHT SOURCE – very high power

Cat: HL2016-001 100W 'QI' (halogen) lamp

DESCRIPTION:

The IEC **High Power Light Source** is used as a convenient source of very bright white light. It can be viewed from either of two directions and each viewing hole has a swinging shutter.

The light source can be supported by clamping to the rod protruding from the rear of the body. Power connection to the lamp is by 4mm banana sockets at the lower edge of the housing. The lamp runs from 12V.AC or DC and draws about 8.3 amps

The lamp is Quartz Halogen, 2 pin, 12V. 100W. dissectible

HL2016-001 100W halogen lamp



Physical size: 76x76x153mmL (plus rod 150mmL)

Weight: 0.56 kg

Supplied complete with lamp, cable and 4mm stackable banana plugs.

Lamp type: 12V 100W 2 pin, quartz halogen, lateral filament, PA2043-001

**A BIT OF USEFUL INFORMATION:**

'QI' means Quartz Iodine. This is also known as Quartz Halogen.

The Quartz part refers to the glass the globe is made from. Quartz glass withstands very high temperatures. The Halogen refers to the group of gases called the 'halogens', which are iodine, bromine, chlorine and fluorine.

As a normal incandescent lamp burns, metal is boiled from the white hot filament and it is slowly deposited on the glass to make it become dull and discoloured. The halogen gas causes the metal boiled off the filament to recombine back to the filament and eliminates condensation on the inside surface of the glass. The filament can run at a higher temperature to provide a brighter and whiter light.

Touching the lamp with the fingers can leave body oils and sweat marks on the glass. Because the glass runs very hot, these deposits are burned on to the surface of the glass and form brown stains. These brown stains reduce clarity but also cause 'hot spots' on the glass that can cause glass cracking and breakage.

CHANGING A LAMP:

Turn off the power and allow the lamp to cool down before starting the process.

Use a screwdriver to undo the screw that holds the metal strip that carries the lamp holder at the bottom of the lamp housing. Pull the metal strip with the lamp socket and lamp down so the lamp is fully accessible. Pull the lamp from the socket.

Take a new lamp and leave it inside the plastic wrapper so that you do not touch the glass with the fingers. Place the lamp's pins into the socket and push the lamp into place firmly. Be sure the lamp is standing straight from the socket.

Now remove the plastic covering from the new lamp.

Re-position the aluminium strip and re-fit the screw.

Look through the viewing holes and be sure the filament of the lamp is positioned close to the centre of the viewing holes.

Designed and manufactured in Australia