

New dimensions in light

POWERBALL® HCl® metal halide lamps have been setting new standards for some time in terms of luminous efficacy and colour stability. Even so, developers at OSRAM have been able to improve the HCl® lamps still further.

Faster, higher, stronger. That's the famous Olympic motto. The motto for the new POWERBALL® could well be "brighter, longer, better". The major advance in the POWERBALL® HCl® is its patented round ceramic arc tube. The effect of this new technology is that the HCl® produces a much higher luminous flux over its entire life. The lamp also offers better colour stability, better rendering of red and a greater choice of burning positions. Thanks to its round design the arc tube has no cold corners in which components of the filler gas can condense and attack the ceramic wall. The distance between the ceramic wall and the hot discharge arc is greater than in conventional high-pressure discharge lamps. The ceramic wall does not heat up as much, which in turn means that

higher arc temperatures are possible. The arc tube walls are uniformly thin so the light can escape unhindered.

In the right light

The modifications to the lamp all comply with existing standards. The new HCl® lamps will therefore fit in any luminaires that comply with these standards so they can be used as replacements for any lamps from any other manufacturers that had previously been used in these luminaires. HCl® lamps cover all requirements because the complete POWERBALL range includes different wattages and sizes and light colours. The lamps are available in WDL for a warm light and NDL for a fresh white light.

New base systems

The particularly small HCl®-TF 20 and 35 W lamps are newcomers to the POWERBALL® family. They are ideal for small luminaires and all applications in which low wattages and small lamp dimensions are needed but the light has to be really bright at the same time. The process of standardisation is continuing. The new GU6.5 Twist & Lock base offers simple handling and precise focusing.

A special highlight is that all HCl®-TC lamps, which are now available in 20 W versions in addition to 35 and 70 W, will be equipped with the G8.5 "Secure Fix" base that has been further developed by OSRAM. The "Secure Fix" base improves handling, is much more robust and enables the

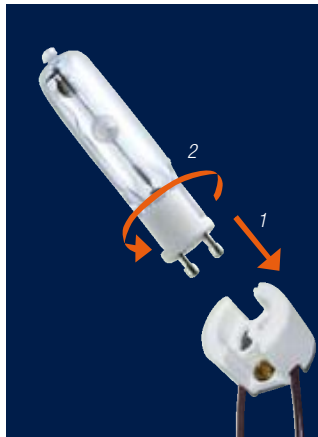


Benefits of POWERBALL® technology
Compared with ceramic metal halide lamps with cylindrical arc tubes, OSRAM POWERBALL® HCl® lamps have some unique benefits:

- Higher red rendering index
- Better colour rendering
- More even distribution of light
- Improved colour stability
- Higher luminous flux
- Better luminous flux maintenance
- Less dependence on burning position
- Faster run-up to full output
- Longer life



POWERTRONIC® intelligent ECGs are impressive for their small dimensions, low weight, good thermal management and long life.



A robust new base and holder system: the HCI®-TF with its Twist & Lock base.



The HCI®-TC with its robust Secure Fix base/holder system.



For information on the system guarantee go to www.osram.com/system-guarantee

lamp to be positioned with great precision.

Simple replacement

As the name suggests, the POWERBALL HCI® Shoplight has been designed specifically for modern shop lighting. This new HCI® version is perfect for this task, primarily because of its natural colour rendering. Since HCI® Shoplight lamps does not need special control gear they will fit in any standard luminaires with G8.5 or G12 fittings and can be used as simple direct replacements for existing metal halide lamps.

Perfect operation with ECGs from OSRAM

Appropriate POWERTRONIC® electronic control gear from OSRAM is available to ensure optimum operation of POWERBALL HCI® lamps. This is because the lamp and control gear from OSRAM are perfectly matched so that the lamp achieves long life and optimum levels of operational safety. The electrical lamp/ECG interface for the HCI®-TF is defined on the basis of the current draft standard. This ensures a high level of flexibility in selecting the lamp and control gear.

Users who operate POWERBALL® and POWERTRONIC® together as a system can benefit from the System+ guarantee. OSRAM offers a one-year guarantee on its HCI® lamps and a five-year guarantee on the ECG*. All the details on

the relevant products and systems, registration and the guarantee requirements can be found at: www.osram.com/system_guarantee.

* After registering the system and under certain conditions of use.

New higher luminous flux for POWERBALL® HCI®

Lamp type	OSRAM catalogue 2004/2005 lm	OSRAM catalogue 2006/2007 lm
HCI-TC 35W/830 WDL PB	3300	3400
HCI-TC 35W/942 NDL PB	3100	3200
HCI-TC 70W/830 WDL PB ¹⁾	6600	6900
HCI-TC 70W/930 WDL PB	5700	6300
HCI-T 35W/830 WDL PB	3300	3400
HCI-T 35W/942 NDL PB	3100	3300
HCI-T 70W/830 WDL PB	6700	7000
HCI-T 70W/930 WDL PB	5700	6400
HCI-T 70W/930 WDL PB	6500	6700
HCI-T 150W/830 WDL PB	14500	15500
HCI-T 150W/942 NDL PB	13700	14500
HCI-TM 250W/830 WDL PB	24500	26000
HCI-TS 70W/830 WDL PB	6600	6900
HCI-TS 70W/942 NDL PB	6300	6700
HCI-TS 150W/942 NDL PB	14000	14200
HCI-TS 250W/830 WDL PB	24500	25000
HCI-TT 70W/830 WDL PB	6500	7000

1) In preparation