

HCI-TT 100 W/830 SUPER 4Y

POWERBALL HCI-TT SUPER 4Y | Metal halide lamps with ceramic technology for enclosed luminaires



Areas of application

- Streets
- Outdoor lighting
- Industrial installations
- Exhibition halls and trade fairs
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

Product benefits

- Up to 15 % higher lumen maintenance factor compared to HCI-TT standard lamps
- Up to 30 % higher lum. efficacy for lamps ≤ 100 W (comp. to NAV-T Super 4Y/6Y)
- Good color rendering
- Operation in existing HPS installations as ignition voltage of IEC 60662 is met
- Energy savings of up to 70 % when replacing inefficient mercury vapor lamps (HQL)
- Dimmable on conventional control gears and electronic control gears
- Optimum energy efficiency on POWERTRONIC PTo 3DIM ECGs
- UV values significantly below the maximum permitted thresholds to IEC 61167 thanks to UV filter

Product features

- White light due to POWERBALL ceramic technology
- Light color: warm white (830 WDL)
- Extended service lifetime: 4 years (at approx. 11 h/day)
- Very high luminous efficacy: up to 125 lm/W
- Lamp survival factor: 95 % after 16,000 hours burning time
- Average lifetime: up to 24,000 hours



Product datasheet

- ErP compliant according to EU Directive 245/2009

Technical data

Electrical data

| | |
|--|-----------------------------|
| Nominal wattage | 100.00 W |
| Rated wattage | 100.00 W |
| Lamp current | 1.20000 A |
| PFC capacitor at 50 Hz | 12 µF ¹⁾ |
| Nominal voltage | 100 V |
| Ignition voltage | 3.3 / 5.0 kVp ²⁾ |
| Rated lamp efficacy (standard condition) | 120 lm/W |

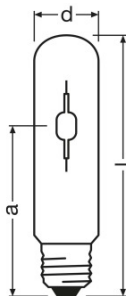
¹⁾ At rated voltage and cos φ ≥ 0.9

²⁾ Minimum / Maximum

Photometrical data

| | |
|--------------------------|----------|
| Rated luminous flux | 12000 lm |
| Color rendering index Ra | ≥80 |
| Color temperature | 3000 K |
| Light color | 830 |
| Rated LLMF at 2,000 h | 0.94 |
| Rated LLMF at 4,000 h | 0.92 |
| Rated LLMF at 6,000 h | 0.90 |
| Rated LLMF at 8,000 h | 0.89 |
| Rated LLMF at 12,000 h | 0.85 |
| Rated LLMF at 16,000 h | 0.84 |
| Rated LLMF at 20,000 h | 0.75 |
| UV protection | Yes |

Dimensions & weight



| | |
|----------|---------|
| Diameter | 47.0 mm |
|----------|---------|

Product datasheet

| | |
|---------------------------|----------|
| Length | 210.0 mm |
| Light center length (LCL) | 132.0 mm |
| Product weight | 135.00 g |

Temperatures

| | |
|--|--------|
| Maximum permitted outer bulb temperature | 450 °C |
| Maximum permitted base edge temperature | 210 °C |

Lifespan

| | |
|--|---------|
| Rated lamp survival factor at 2,000 h | 0.99 |
| Rated lamp survival factor at 4,000 h | 0.99 |
| Rated lamp survival factor at 6,000 h | 0.98 |
| Rated lamp survival factor at 8,000 h | 0.97 |
| Rated lamp survival factor at 12,000 h | 0.97 |
| Rated lamp survival factor at 16,000 h | 0.95 |
| Rated lamp survival factor at 20,000 h | 0.78 |
| Lifespan B50 | 24000 h |
| Lifespan B10 | 18000 h |
| Lifespan B5 | 16000 h |
| Operation mode LLMF/LSF | 50 Hz |

Additional product data

| | |
|-----------------------------|---------|
| New article | NEW |
| Base (standard designation) | E40 |
| Design / version | Clear |
| System guarantee level | 3 (2/5) |
| Lamp mercury content | 13.2 mg |

Capabilities

| | |
|-----------------------------|-------------------|
| Dimmable | Yes ¹⁾ |
| Burning position | Any |
| Enclosed luminaire required | Yes |

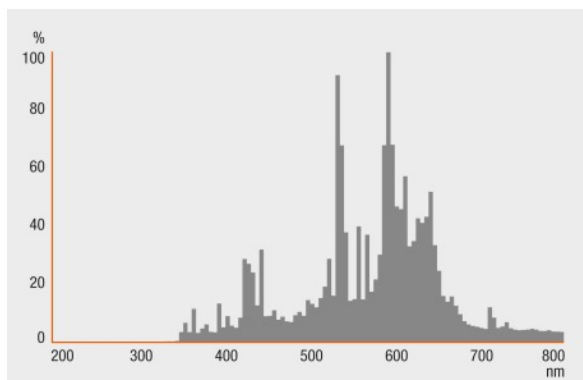
¹⁾ In combination with POWERTRONIC PTO

Certificates & standards

| | |
|-------------------------|---------------|
| Energy efficiency class | A+ |
| Energy consumption | 110 kWh/1000h |

Country specific categorizations

Light Distribution



Spectral power distribution

System guarantee

For the vast majority of our lamps we are offering an extended system guarantee in conjunction with OSRAM POWERTRONIC control gear.

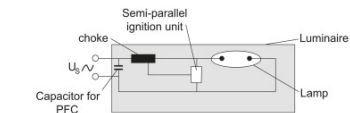


Guarantee

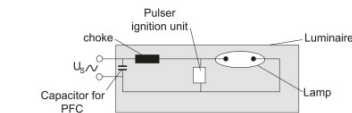
Product datasheet

Safety advice

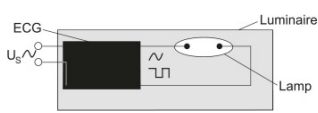
Where possible, use a timer igniter (switch-off time of at least 15 minutes). Otherwise, switch off the luminaire for at least 15 minutes if a brief interruption has occurred to the mains voltage supply.



Circuit diagram



Circuit diagram



Circuit diagram

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|------------------------------|---------------------------------|---|-----------------------|--------------|
| 4052899108097 | HCI-TT 100 W/830 SUPER 4Y | Shipping carton box 12 | 266 mm x 216 mm x 277 mm | 15.92 dm ³ | 2022.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

For more information on the system guarantee and the terms and conditions of the guarantee visit

► www.osram.com/system-guarantee

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.