

PRODUCT DATASHEET

HCI-T 50 W/930 WDL PB Excellence

POWERBALL HCI®-T Excellence | Metal halide lamps with ceramic technology for enclosed luminaires



Areas of application

- Shop interiors, shop windows
- Shopping arcades
- Foyers, reception areas
- Museums, exhibitions
- Exhibition halls and trade fairs
- Factories and workshops
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

Product benefits

- Very high efficiency
- Excellent color rendering
- Very long lifetime
- Very good color stability
- UV values significantly below the maximum permitted thresholds to IEC 61167 thanks to UV filter

Product features

- POWERBALL® ceramic technology
- Light colors: warm white (930 WDL), neutral white (942 NDL)
- Color rendering index $R_a: \geq 90$
- Average lifetime: 20,000 h (operation with ECG with 70...400 Hz square-wave current)



- Average lifetime: 15,000 h (with magnetic control gear)
- Average lifetime: 16,000 h (35 W/942 with ECG 70...400 Hz square-wave current)
- HCI-T 50 W only for operation with ECG with 70...400 Hz square-wave current

TECHNICAL DATA

Electrical data

Nominal wattage	50 W
Construction wattage	50.00 W
Nominal voltage	88 V
Ignition voltage	3.6/5.0 kVp ¹⁾
Nominal current	0.56 A

¹⁾ Minimum / for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient

Photometrical data

Luminous flux	5500 lm
Luminous efficacy	110 lm/W
Color temperature	3000 K
Color rendering index Ra	90
Light color	930
Rated LLMF at 2,000 h	0.94
Rated LLMF at 4,000 h	0.91
Rated LLMF at 6,000 h	0.86
Rated LLMF at 8,000 h	0.84
Rated LLMF at 12,000 h	0.80
Rated LLMF at 16,000 h	0.76
Rated LLMF at 20,000 h	0.72
Rated lamp efficacy (standard co.)	110 lm/W
UV protection	Yes

Dimensions & Weight

Overall length	100.00 mm
Light center length (LCL)	56,0 mm
Diameter	20.00 mm
Product weight	27.00 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	500 °C
Maximum permitted pinch temperature	350 °C

Lifespan

Nominal lamp life time	20000 h
Rated lamp survival factor at 2,000 h	0.99
Rated lamp survival factor at 4,000	0.99
Rated lamp survival factor at 6,000	0.98
Rated lamp survival factor at 8,000 h	0.97
Rated lamp survival factor at 12,000 h	0.95
Rated lamp survival factor at 16,000	0.80
Rated lamp survival factor at 20,000 h	0.50
Lifespan B50	20000 h ¹⁾
Operation mode LLMF/LSF	ECG

¹⁾ At ECG

Additional product data

Base (standard designation)	G12
Mercury content	6.9 mg
Mercury-free	No
Design / version	Clear
Product remark	Only for operation with electronic control gear with 70...400 Hz square-wave current
System guarantee level	3 (2/5)

Capabilities

Dimmable	Yes
Burning position	Any
Enclosed luminaire required	Yes
Hot restart	No

Certificates & Standards

Energy efficiency class	A+
Energy consumption	55.00 kWh/1000h

Country-specific categorizations

ILCOS	MT/UB-50/930-H/L-G12-20/90
Order reference	HCI-T 50W/930WD

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G12
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Length	100.00 mm
Height	20.00 mm
Width	20.00 mm

DOWNLOAD DATA

DOWNLOAD DATA	
	Advertisements Metal halide lamps. Application guide V1.1
	Advertisements 340203_EVG - Lamp Combination (G+GB)

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899238763	Folding box 1	42 mm x 42 mm x 142 mm	42.00 g	0.25 dm ³
4052899238770	Shipping box 12	180 mm x 140 mm x 158 mm	586.00 g	3.98 dm ³

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.

DISCLAIMER

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