

# Product datasheet

## HCI-TS 70 W/942 NDL PB

**POWERBALL HCI-TS | Metal halide lamps with ceramic technology for enclosed luminaires**



- Shopping arcades Foyers, reception areas Museums, exhibitions Exhibition halls and trade fairs Factories and workshops Buildings, monuments, bridges Approved only for use in enclosed luminaires Outdoor applications only in suitable luminaires

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



Technical data

Electrical data

Nominal wattage	70.00 W
Rated wattage	73.00 W <sup>1)</sup>
Lamp current	0.94 A
PFC capacitor at 50 Hz	12 µF <sup>2)</sup>
Ignition voltage	3.6 kVp;5.0 kVp <sup>3)</sup>
Nominal voltage	99 V
Nominal current	0.94 A

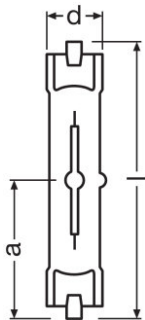
<sup>1)</sup> In operation with electronic control gear with 70...400 Hz square-wave current  
<sup>2)</sup> At rated voltage and  $\cos \varphi \geq 0.9$   
<sup>3)</sup> Minimum; for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient;Maximum; this limit is for safety reasons

Photometrical data

Luminous flux	6750 lm
Luminous efficacy	92 lm/W <sup>1)</sup>
Color rendering index Ra	94
Color temperature	4100 K
Light color	941
Rated LLMF at 2,000 h	0.82
Rated LLMF at 4,000 h	0.78
Rated LLMF at 6,000 h	0.76
Rated LLMF at 8,000 h	0.74
Rated LLMF at 12,000 h	0.71
UV protection	Yes
Rated luminous flux	6750 lm
Nominal luminous flux	6750 lm
Rated color temperature	4100 K

<sup>1)</sup> In operation with low frequency square wave electronic ballast, 70...400 Hz. Operation with electromagnetic ballast may be less efficient.

Dimensions & weight



Diameter	20.0 mm
Length	120.0 mm
Light center length (LCL)	60.0 mm
Product weight	20.00 g
Outer bulb	T19
Overall length	120.0 mm

Temperatures & operating conditions

Maximum permitted outer bulb temperature	500 °C
Maximum permitted pinch temperature	330 °C

Lifespan

Rated lamp survival factor at 2,000 h	0.99
Rated lamp survival factor at 4,000 h	0.98
Rated lamp survival factor at 6,000 h	0.97
Rated lamp survival factor at 8,000 h	0.96
Rated lamp survival factor at 12,000 h	0.85
Lifespan B50	15000 h <sup>1)</sup>
Operation mode LLMF/LSF	ECG

<sup>1)</sup> At ECG

Additional product data

Base (standard designation)	RX7s
System guarantee level	3 (2/5)
Mercury content	8.8 mg <sup>1)</sup>
Appropriate disposal acc. to WEEE	Yes
Mercury-free	No

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1) Maximum

Capabilities

Dimmable	Yes <sup>1)</sup>
Burning position	p45
Enclosed luminaire required	Yes

1) In combination with POWERTRONIC PTO

Certificates & standards

Energy efficiency class	A+
Energy consumption	81 kWh/1000h

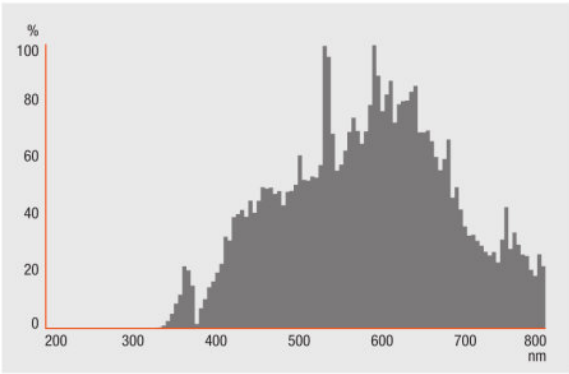
Country specific categorizations

ILCOS	MD/UB-70/942-H/SL-RX7s-22/114,2/H
Order reference	HCI-TS 70W/942

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	09-12-2022
Primary Article Identifier	4008321688361
Candidate List Substance 1	No declarable substances contained
Declaration No. in SCIP database	No declarable substances contained

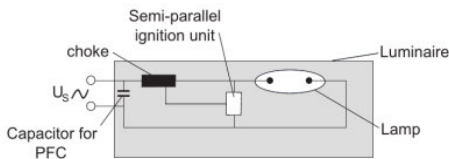
Light Distribution



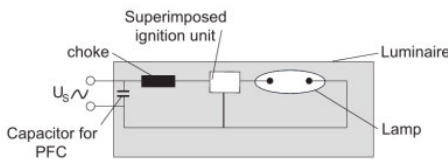
HCL\_942\_NDL

System guarantee

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

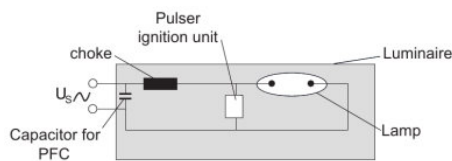


OPERATION OF HIGH INTENSITY DISCHARGE LAMPS WITH SEMI-PARALLEL IGNITION UNIT

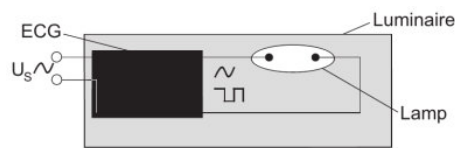


OPERATION OF HIGH INTENSITY DISCHARGE LAMPS WITH A SUPERIMPOSED IGNITION UNIT

Product datasheet



OPERATION OF HIGH INTENSITY DISCHARGE LAMPS  
WITH PULSE IGNITION UNIT



ELEKTRONIC OPERATION OF HIGH INTENSITY  
DISCHARGE LAMPS

Ecodesign regulation information:

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321688361	HCI-TS 70 W/942 NDL PB	Shipping carton box 12 Pieces Folding carton box	180 mm x 161 mm x 139 mm	4.03 dm <sup>3</sup>	490.00 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 <https://www.inventronics-light.com/multilevel-guarantees>

Disclaimer

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

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**OSRAM**

OSRAM GmbH  
Marcel-Breuer-Strasse 6  
80807 Munich, Germany

# HCI-TS 70 W/942 NDL PB

POWERBALL HCI-TS | Metal halide lamps with ceramic technology for enclosed luminaires

Product name	Product name ECG	EAN
HCI-TS 70 W/942 NDL PB	PT-FIT 70/220-240 I	4008321377685
	PT-FIT 70/220-240 S	4008321386649
	PTi 70/220-240 I	4008321099501
	PTi 70/220-240 S	4008321049629
	PTo 70/220-240 3DIM	4008321959355