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## POWERSTAR HQI-TS EXCELLENCE

Metal halide lamps with quartz technology for enclosed luminaires



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### Areas of application

- Shop interiors, shop windows
- Shopping arcades
- Foyers, reception areas
- Buildings, monuments, bridges
- Museums, exhibitions
- Exhibition halls and trade fairs
- Pedestrian zones, public squares
- Parks and gardens
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

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### Product benefits

- High efficiency
- Uniform distribution of light
- Good to excellent color rendering
- Long lifetime
- Hot restrike capable
- UV values significantly below the maximum permitted thresholds to IEC 61167 thanks to UV filter

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### Product features

- POWERSTAR quartz technology
- Light colors: warm white (WDL), neutral white (NDL), daylight (D), cool daylight (CD)
- Average lifetime: 12,000 h



# Product family datasheet

## Technical data

Product description	Electrical data						Photometrical data				
	Nominal wattage	Rated wattage	Lamp current	PFC capacitor at 50 Hz	Nominal voltage	Ignition voltage	Rated lamp efficacy (standard condition)	Rated luminous flux	Color rendering index Ra	Color temperature	Light color
HQI-TS 70 W/WDL	70.00 W	78.00 W	0.95 A	12 µF <sup>1)</sup>	98.0 V	3.6 / 36 kVp <sup>2)</sup>	76 lm/W	5925 lm	67	3300 K	630
HQI-TS 70 W/NDL	70.00 W	78.00 W	0.95 A	12 µF <sup>1)</sup>	93.0 V	3.6 / 36 kVp <sup>2)</sup>	83 lm/W	6500 lm	78	4200 K	742
HQI-TS 70 W/D	70.00 W	78.00 W	0.95 A	12 µF <sup>1)</sup>	92.0 V	3.6 / 36 kVp <sup>2)</sup>	75 lm/W	6200 lm	75	5350 K	760
HQI-TS 70 W/CD	70.00 W	75.00 W	1.0 A	12 µF <sup>1)</sup>	87.0 V	3.6 / 36 kVp <sup>2)</sup>	74 lm/W	5530 lm	76	6500 K	760
HQI-TS 150 W/WDL	150.00 W	150.00 W	1.8 A	20 µF <sup>1)</sup>	93.0 V	3.6 / 36 kVp <sup>2)</sup>	80 lm/W	12000 lm	70	3100 K	730
HQI-TS 150 W/NDL	150.00 W	150.00 W	1.8 A	20 µF <sup>1)</sup>	95.0 V	3.6 / 36 kVp <sup>2)</sup>	83 lm/W	12500 lm	80	4200 K	842
HQI-TS 150 W/D	150.00 W	150.00 W	1.8 A	20 µF <sup>1)</sup>	100 V	3.6 / 36 kVp <sup>2)</sup>	86 lm/W	13000 lm	81	5450 K	860
HQI-TS 150 W/CD	150.00 W	150.00 W	1.8 A	20 µF <sup>1)</sup>	100 V	3.6 / 36 kVp <sup>2)</sup>	83 lm/W	12500 lm	81	6500 K	860

Product description	Electrical data						Dimensions & weight				Temperatures & operating conditions	
	Rated LLMF at 2,000 h	Rated LLMF at 4,000 h	Rated LLMF at 6,000 h	Rated LLMF at 8,000 h	Rated LLMF at 12,000 h	UV protection	Diameter	Length	Light center length (LCL)	Product weight	Max. permitted outer bulb temperature	Max. permitted pinch temp.
HQI-TS 70 W/WDL	0.68	0.64	0.56	0.50	0.45	Yes	19.0 mm	117.0 mm	57.0 mm	15.00 g	500 °C	350 °C
HQI-TS 70 W/NDL	0.92	0.90	0.85	0.78	0.73	Yes	19.0 mm	117.0 mm	57.0 mm	17.00 g	500 °C	350 °C
HQI-TS 70 W/D	0.95	0.93	0.85	0.82	0.75	Yes	19.0 mm	117.0 mm	57.0 mm	17.00 g	500 °C	350 °C
HQI-TS 70 W/CD	0.95	0.93	0.85	0.82	0.75	Yes	19.0 mm	117.0 mm	57.0 mm	17.00 g		350 °C
HQI-TS 150 W/WDL	0.79	0.75	0.67	0.60	0.50	Yes	23.0 mm	135.0 mm	66.0 mm	22.00 g	500 °C	350 °C
HQI-TS 150 W/NDL	0.86	0.84	0.80	0.77	0.73	Yes	23.0 mm	135.0 mm	66.0 mm	22.00 g	450 °C	350 °C
HQI-TS 150 W/D	0.86	0.84	0.77	0.74	0.70	Yes	23.0 mm	135.0 mm	66.0 mm	22.00 g	450 °C	350 °C
HQI-TS 150 W/CD	0.86	0.84	0.77	0.74	0.70	Yes	23.0 mm	135.0 mm	66.0 mm	22.00 g	650 °C	350 °C

## Product family datasheet

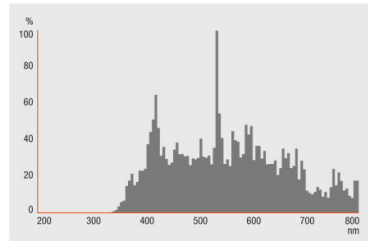
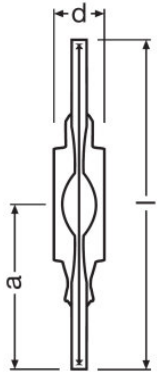
Product description	Lifespan						Additional product data			Capabilities	
	Rated lamp survival factor at 2,000 h	Rated lamp survival factor at 4,000 h	Rated lamp survival factor at 6,000 h	Rated lamp survival factor at 8,000 h	Rated lamp survival factor at 12,000 h	Lifespan B50	Base (standard designation)	Design / version	Mercury content	Dimmable	Burning position
HQI-TS 70 W/WDL	0.95	0.90	0.85	0.80	0.50	12000 h	RX7s	Clear	12.6 mg	No	p45
HQI-TS 70 W/NDL	0.95	0.90	0.85	0.80	0.50	12000 h	RX7s	Clear	10.6 mg	No	p45
HQI-TS 70 W/D	0.95	0.90	0.85	0.80	0.50	12000 h	RX7s	Clear	9.9 mg	No	p45
HQI-TS 70 W/CD	0.95	0.90	0.85	0.80	0.50	12000 h	RX7s	Clear	9.3 mg	No	p45
HQI-TS 150 W/WDL	0.95	0.90	0.85	0.80	0.50	12000 h	RX7s-24	Clear	16.7 mg	No	p45
HQI-TS 150 W/NDL	0.95	0.90	0.85	0.80	0.50	12000 h	RX7s-24	Clear	12.3 mg	No	p45
HQI-TS 150 W/D	0.95	0.90	0.85	0.80	0.50	12000 h	RX7s-24	Clear	12.1 mg	No	p45
HQI-TS 150 W/CD	0.95	0.90	0.85	0.80	0.50	12000 h	RX7s-24	Clear	12.2 mg	No	p45

Product description	Enclosed luminaire required	Hot restart	Certificates & standards		Country specific categorizations
			Energy efficiency class	Energy consumption	ILCOS
HQI-TS 70 W/WDL	Yes	Yes	A	86 kWh/1000h	MD/UB-70/730-H/E/SL-RX7s-19/117/H
HQI-TS 70 W/NDL	Yes	Yes	A	86 kWh/1000h	MD/UB-70/842-H/E/SL-RX7s-19/117/H
HQI-TS 70 W/D	Yes	Yes	A	86 kWh/1000h	MD/UB-70/856-H/E/SL-RX7s-19/117/H
HQI-TS 70 W/CD	Yes	Yes	A	83 kWh/1000h	MD/UB-70/865-H/E/SL-RX7s-19/117/H
HQI-TS 150 W/WDL	Yes	Yes	A	165 kWh/1000h	MD/UB-150/730-H/E/SL-RX7s=24-23/135/H
HQI-TS 150 W/NDL	Yes	Yes	A	165 kWh/1000h	MD/UB-150/842-H/E/SL-RX7s=24-23/135/H
HQI-TS 150 W/D	Yes	Yes	A+	165 kWh/1000h	MD/UB-150/856-H/E/SL-RX7s=24-23/135/H
HQI-TS 150 W/CD	Yes	Yes	A	165 kWh/1000h	MD/UB-150/865-H/E/SL-RX7s=24-23/135/H

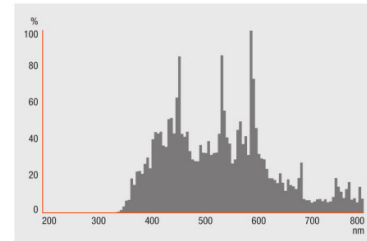
# Product family datasheet

1) At rated voltage and  $\cos \phi \geq 0.9$

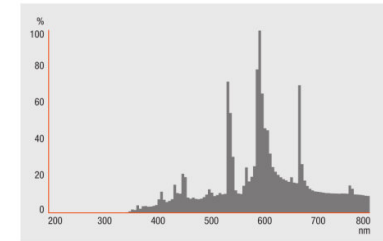
2) Minimum



HQI-TS 70 W/D, HQI-TS 150 W/D



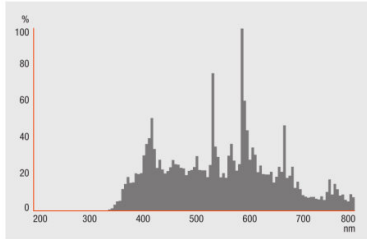
HQI-TS 70 W/CD, HQI-TS 150 W/CD



HQI-TS 150 W/WDL

HQI-TS 70 W/WDL, HQI-TS 70 W/NDL,  
HQI-TS 70 W/D, HQI-TS 70 W/CD,  
HQI-TS 150 W/WDL, HQI-TS 150  
W/NDL, HQI-TS 150 W/D, HQI-TS 150  
W/CD

## Product family datasheet



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HQI-TS 150 W/NDL

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### System guarantee

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

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### Application advice

For more detailed application information and graphics please see product datasheet.

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### Logistical Data

## Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321678300	HQI-TS 70 W/WDL	Shipping carton box 12	149 mm x 136 mm x 118 mm	2.39 dm <sup>3</sup>	386.00 g
4008321678324	HQI-TS 70 W/NDL	Shipping carton box 12	149 mm x 136 mm x 118 mm	2.39 dm <sup>3</sup>	410.00 g
4008321678348	HQI-TS 70 W/D	Shipping carton box 12	149 mm x 139 mm x 116 mm	2.40 dm <sup>3</sup>	410.00 g
4008321624758	HQI-TS 70 W/CD	Shipping carton box 12	149 mm x 136 mm x 116 mm	2.35 dm <sup>3</sup>	410.00 g
4008321678362	HQI-TS 150 W/WDL	Shipping carton box 12	154 mm x 159 mm x 123 mm	3.01 dm <sup>3</sup>	498.00 g
4008321678386	HQI-TS 150 W/NDL	Shipping carton box 12	154 mm x 156 mm x 121 mm	2.91 dm <sup>3</sup>	498.00 g
4008321678409	HQI-TS 150 W/D	Shipping carton box 12	154 mm x 156 mm x 116 mm	2.79 dm <sup>3</sup>	498.00 g
4008321624789	HQI-TS 150 W/CD	Shipping carton box 12	154 mm x 156 mm x 116 mm	2.79 dm <sup>3</sup>	498.00 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.ledvance.com/system-guarantee](http://www.ledvance.com/system-guarantee)

### Disclaimer

## Product family datasheet

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