

## POWERSTAR HQI-TS

Metal halide lamps with quartz technology for enclosed luminaires



### Areas of application

- Foyers, reception areas
- Factory and hall lighting with low-cost installations
- Exhibition halls and trade fairs
- Sports halls and multi-purpose halls
- Pedestrian zones, public squares
- Parks and gardens
- Buildings, monuments, bridges
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

### 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

### Product features

- POWERSTAR quartz technology
- Light colors: warm white (WDL), neutral white (NDL), daylight (D)



# 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 250 W/WDL	250.00 W	250.00 W	2.8 A	32 µF <sup>3)</sup>	112 V	4.0 / 25 kVp <sup>4)</sup>	88 lm/W	22000 lm	80	3200 K	830
HQI-TS 250 W/NDL UVS	250.00 W	250.00 W	3.0 A	32 µF <sup>3)</sup>	98.0 V	4.0 / 25 kVp <sup>4)</sup>	80 lm/W	20000 lm	88	4200 K	842
HQI-TS 250 W/D UVS	250.00 W	250.00 W	3.0 A	32 µF <sup>3)</sup>	98.0 V	4.0 / 25 kVp <sup>4)</sup>	86 lm/W	21500 lm	93	5500 K	960
HQI-TS 400 W/NDL <sup>1)</sup>	400.00 W	410.00 W	4.1 A	45 µF <sup>3)</sup>	118 V	4.0 / 25 kVp <sup>4)</sup>	88 lm/W	36000 lm	85	4200 K	842
HQI-TS 400 W/D <sup>2)</sup>	400.00 W	400.00 W	4.0 A	45 µF <sup>3)</sup>	118 V	4.0 / 25 kVp <sup>4)</sup>	83 lm/W	35000 lm	93	5500 K	960

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 250 W/WDL	0.70	0.60	0.55	0.52	0.50	Yes	25.0 mm	162.0 mm	81.0 mm	52.00 g	650 °C	300 °C
HQI-TS 250 W/NDL UVS	0.80	0.75	0.65	0.55	0.50	Yes	25.0 mm	162.0 mm	81.0 mm	52.00 g	650 °C	300 °C
HQI-TS 250 W/D UVS	0.70	0.60	0.55	0.52	0.50	Yes	25.0 mm	162.0 mm	81.0 mm	52.00 g	650 °C	300 °C
HQI-TS 400 W/NDL <sup>1)</sup>	0.70	0.60	0.55	0.52	0.50	Yes	33.0 mm	206.0 mm	103.0 mm	92.00 g	650 °C	300 °C
HQI-TS 400 W/D <sup>2)</sup>	0.70	0.60	0.55	0.52	0.50	Yes	33.0 mm	206.0 mm	103.0 mm	92.00 g	650 °C	300 °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 250 W/WDL	0.95	0.90	0.85	0.80	0.50	12000 h	Fc2	Clear	31.0 mg	No	p45
HQI-TS 250 W/NDL UVS	0.95	0.90	0.85	0.80	0.50	12000 h	Fc2	Clear	14.0 mg	No	p45
HQI-TS 250 W/D UVS	0.95	0.90	0.85	0.80	0.50	12000 h	Fc2	Clear	16.0 mg	No	p45
HQI-TS 400 W/NDL <sup>1)</sup>	0.95	0.90	0.85	0.80	0.50	12000 h	Fc2	Clear	29.0 mg	No	p45
HQI-TS 400 W/D <sup>2)</sup>	0.95	0.90	0.85	0.80	0.50	12000 h	Fc2	Clear	35.0 mg	No	p45

Product description	Enclosed luminaire required	Hot restart	Certificates & standards		Country specific categorizations
			Energy efficiency class	Energy consumption	ILCOS
HQI-TS 250 W/WDL	Yes	Yes	A+	275 kWh/1000h	MD/UB-250/832-H/E/SL-Fc2-25/162/H
HQI-TS 250 W/NDL UVS	Yes	Yes	A	275 kWh/1000h	MD/UB-250/842-H/E/SL-Fc2-25/162/H
HQI-TS 250 W/D UVS	Yes	Yes	A+	275 kWh/1000h	MD/UB-250/951-H/E/SL-Fc2-25/162/H
HQI-TS 400 W/NDL <sup>1)</sup>	Yes	Yes	A+	451 kWh/1000h	MD/UB-400/842-H/E/SL-Fc2-25/162/H
HQI-TS 400 W/D <sup>2)</sup>	Yes	Yes	A	462 kWh/1000h	MD/UB-400/856-H/E/SL-Fc2-25/162/H

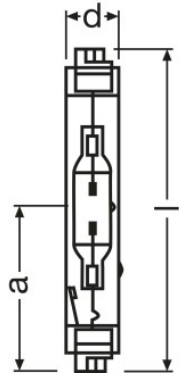
<sup>1)</sup> Operate only with NAV control gear

<sup>2)</sup> With NAV control gear

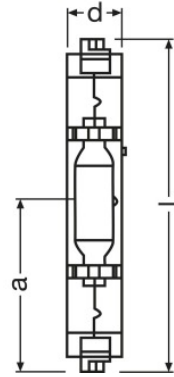
<sup>3)</sup> At rated voltage and  $\cos \varphi \geq 0.9$

<sup>4)</sup> Minimum

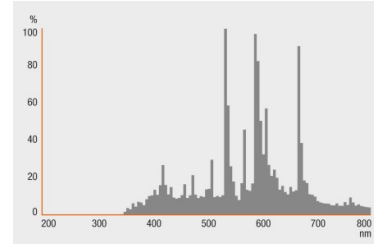
# Product family datasheet



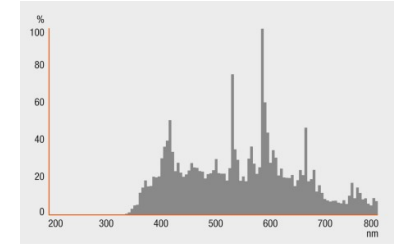
HQI-TS 250 W/WDL, HQI-TS 250 W/NDL UVS, HQI-TS 250 W/D UVS



HQI-TS 400 W/NDL, HQI-TS 400 W/D

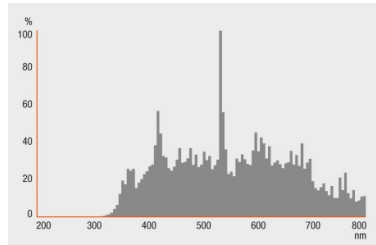


HQI-TS 250 W/WDL



HQI-TS 250 W/NDL UVS, HQI-TS 400 W/NDL

## Product family datasheet



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HQI-TS 250 W/D UVS, HQI-TS 400  
W/D

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### Application advice

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

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### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321689177	HQI-TS 250 W/WDL	Shipping carton box 12	216 mm x 166 mm x 272 mm	9.75 dm <sup>3</sup>	984.00 g
4008321766878	HQI-TS 250 W/NDL UVS	Shipping carton box 12	216 mm x 166 mm x 272 mm	9.75 dm <sup>3</sup>	984.00 g

## Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321689139	HQI-TS 250 W/D UVS	Shipping carton box 12	216 mm x 166 mm x 272 mm	9.75 dm <sup>3</sup>	984.00 g
4008321689214	HQI-TS 400 W/NDL	Shipping carton box 12	216 mm x 166 mm x 272 mm	9.75 dm <sup>3</sup>	1464.00 g
4008321689191	HQI-TS 400 W/D	Shipping carton box 12	216 mm x 166 mm x 272 mm	9.75 dm <sup>3</sup>	1464.00 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.

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### Disclaimer

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