

PRODUCT FAMILY DATASHEET

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)



TECHNICAL DATA

Product description	Electrical data						Photometrical data				
	Rated wattage	Lamp current	PFC capacitor at 50 Hz	Nominal wattage	Nominal voltage	Ignition voltage	Rated lamp efficacy (standard condition)	Rated luminous flux	Color temperature	Light color	Rated LLMF at 2,000 h
HQI-TS 250 W/WDL	250.00 W	2.8 A	32 µF ³⁾	250.00 W	112 V	4.0 / 25 kVp ⁴⁾	88 lm/W	22000 lm	3200 K	832	0.70
HQI-TS 250 W/NDL UVS	250.00 W	3.0 A	32 µF ³⁾	250.00 W	98 V	4.0 / 25 kVp ⁴⁾	80 lm/W	20000 lm	4200 K	842	0.80
HQI-TS 250 W/D UVS	250.00 W	3.0 A	32 µF ³⁾	250.00 W	98 V	4.0 / 25 kVp ⁴⁾	86 lm/W	21500 lm	5500 K	955	0.70
HQI-TS 400 W/NDL ¹⁾	410.00 W	4.1 A	45 µF ³⁾	400.00 W	118 V	4.0 / 25 kVp ⁴⁾	90 lm/W	36000 lm	4200 K	842	0.70
HQI-TS 400 W/D ²⁾	400.00 W	4.0 A	45 µF ³⁾	400.00 W	118 V	4.0 / 25 kVp ⁴⁾	83 lm/W	35000 lm	5500 K	955	0.70

Product description										Dimensions & weight		
	Rated LLMF at 4,000 h	Rated LLMF at 6,000 h	Rated LLMF at 8,000 h	UV protection	Light color (designation)	Luminous flux	Color rendering index Ra	Rated LLMF at 12,000 h	Diameter	Length	Light center length (LCL)	Product weight
HQI-TS 250 W/WDL	0.60	0.55	0.52	Yes	Warm White DE LUXE	22000 lm	80		25.0 mm	162.0 mm	81.0 mm	52.00 g
HQI-TS 250 W/NDL UVS	0.75	0.65	0.55	Yes	Neutral White DE LUXE	20000 lm	88	0.50	25.0 mm	162.0 mm	81.0 mm	52.00 g
HQI-TS 250 W/D UVS	0.60	0.55	0.52	Yes	Daylight	21500 lm	93	0.50	25.0 mm	162.0 mm	81.0 mm	52.00 g
HQI-TS 400 W/NDL ¹⁾	0.60	0.55	0.52	Yes	Neutral White DE LUXE	36000 lm	85	0.50	33.0 mm	206.0 mm	103.0 mm	88.00 g
HQI-TS 400 W/D ²⁾	0.60	0.55	0.52	Yes	Daylight	35000 lm	93	0.50	33.0 mm	206.0 mm	103.0 mm	88.00 g

Product description	Temperatures & operating conditions		Lifespan					Additional product data			Capabilities	
	Max. permitted outer bulb temperature	Max. permitted pinch temp.	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	Lifespan B50	Rated lamp survival factor at 12,000 h	Base (standard designation)	Design / version	Mercury content	Dimmable
HQI-TS 250 W/WDL	650 °C	300 °C	0.80	0.97	0.60	0.55	12000 h		Fc2	clear	25.0 mg	No
HQI-TS 250 W/NDL UVS	650 °C	300 °C	0.95	0.90	0.85	0.80	12000 h	0.50	Fc2	clear	12.0 mg	No
HQI-TS 250 W/D UVS	650 °C	300 °C	0.95	0.90	0.85	0.80	12000 h	0.50	Fc2	clear	13.0 mg	No

Product description	Temperatures & operating conditions		Lifespan						Additional product data			Capabilities
	Max. permitted outer bulb temperature	Max. permitted pinch temp.	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	Lifespan B50	Rated lamp survival factor at 12,000 h	Base (standard designation)	Design / version	Mercury content	Dimmable
HQI-TS 400 W/NDL ¹⁾	750 °C	300 °C	0.80	0.70	0.60	0.55	12000 h	0.50	Fc2	clear	30.0 mg	No
HQI-TS 400 W/D ²⁾	750 °C	300 °C	0.80	0.70	0.60	0.55	12000 h	0.50	Fc2	clear	40.0 mg	No

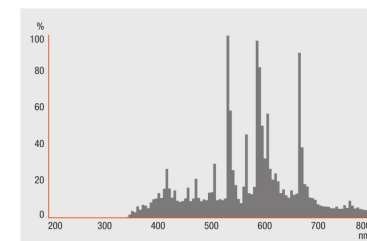
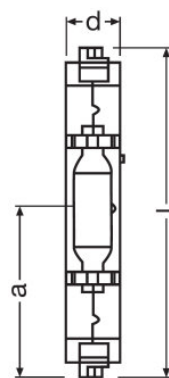
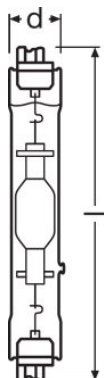
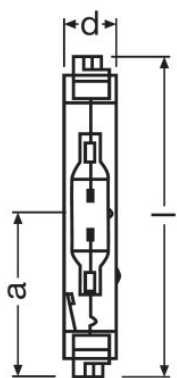
Product description	Burning position	Enclosed luminaire required	Hot restart	Certificates & standards	Country-specific categorizations
				Energy consumption	ILCOS
HQI-TS 250 W/WDL	p45	Yes	Yes	275 kWh/1000h	MD/UB-250/832-H/E/SL-Fc2-25/162/H
HQI-TS 250 W/NDL UVS	p45	Yes	Yes	275 kWh/1000h	MD/UB-250/842-H/E/SL-Fc2-25/162/H
HQI-TS 250 W/D UVS	p45	Yes	Yes	275 kWh/1000h	MD/UB-250/951-H/E/SL-Fc2-25/162/H
HQI-TS 400 W/NDL ¹⁾	p45	Yes	Yes	451 kWh/1000h	MD/UB-400/842-H/E/SL-Fc2-25/162/H
HQI-TS 400 W/D ²⁾	p45	Yes	Yes	462 kWh/1000h	MD/UB-400/856-H/E/SL-Fc2-25/162/H

¹⁾ Operate only with NAV control gear

²⁾ With NAV control gear

³⁾ At rated voltage and $\cos \varphi \geq 0.9$

⁴⁾ Minimum

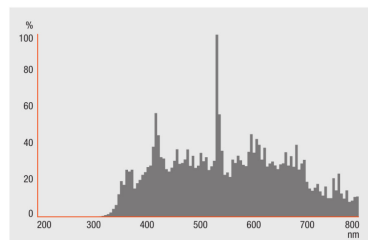
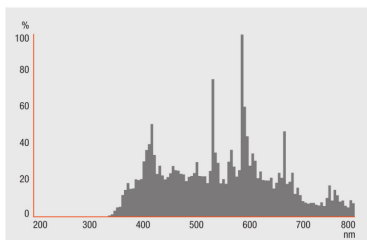


HQI-TS 250 W/WDL, HQI-TS 250 W/NDL UVS, HQI-TS 250 W/D UVS

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

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

APPLICATION ADVICE

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

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321689184	Shipping carton box 12	216 mm x 166 mm x 272 mm	984.00 g	9.75 dm ³
4008321689160	Shipping carton box 12	216 mm x 166 mm x 272 mm	984.00 g	9.75 dm ³
4008321766885	Shipping carton box 12	216 mm x 166 mm x 272 mm	984.00 g	9.75 dm ³
4008321689146	Shipping carton box 12	216 mm x 166 mm x 272 mm	984.00 g	9.75 dm ³
4008321689221	Shipping carton box 12	216 mm x 166 mm x 272 mm	1464.00 g	9.75 dm ³
4008321689207	Shipping carton box 12	216 mm x 166 mm x 272 mm	1464.00 g	9.75 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.