

## POWERSTAR HQI-T

Metal halide lamps with quartz technology for enclosed luminaires



### Areas of application

- Factories and workshops
- Sports halls and multi-purpose halls
- Industrial installations
- Docks and port facilities
- Marshaling yards, container transshipment facilities
- Buildings, monuments, bridges
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

### Product benefits

- Output of up to 400 W
- High efficiency
- Long lifetime
- E40 screw base for simple lamp handling
- UV values significantly below the maximum permitted thresholds to IEC 61167 thanks to UV filter

### Product features

- POWERSTAR quartz technology
- Light colors: neutral white (N), 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-T 250 W/D PRO	250.00 W	250.00 W	3.0 A	32 µF <sup>3)</sup>	98.0 V	4.0 / 5.0 kVp <sup>4)</sup>	76 lm/W	19000 lm	92	5500 K	960
HQI-T 250 W/N/SI <sup>1)</sup>	250.00 W	250.00 W		32 µF <sup>3)</sup>		0.75 / 1.3 kVp <sup>4)</sup>	76 lm/W	19000 lm	65	4500 K	
HQI-T 250 W/N PLUS	270.00 W	270.00 W	2.6 A	32 µF <sup>3)</sup>	130 V		83 lm/W	22500 lm	>65	3800 K	742
HQI-BT 400 W/D PRO <sup>2)</sup>	400.00 W	420.00 W	4.0 A	45 µF <sup>3)</sup>	115 V	4.0 / 5.0 kVp <sup>4)</sup>	81 lm/W	34000 lm	92	5500 K	960
HQI-T 400 W/N <sup>2)</sup>	400.00 W	448.00 W	3.9 A	45 µF <sup>3)</sup>	126 V	4.0 / 5.0 kVp <sup>4)</sup>	90 lm/W	40000 lm	62	3700 K	642
HQI-T 400 W/N/SI <sup>1)</sup>	400.00 W	400.00 W		45 µF <sup>3)</sup>		0.75 / 1.3 kVp <sup>4)</sup>	82 lm/W	33000 lm	65	4100 K	

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 edge temperature
HQI-T 250 W/D PRO	0.84	0.76	0.74	0.72	0.68	Yes	46.0 mm	226.0 mm	150.0 mm	150.00 g	500 °C	250 °C
HQI-T 250 W/N/SI <sup>1)</sup>	0.77	0.61	0.38	0.32		Yes	18.0 mm	249.0 mm	160.0 mm	154.00 g	400 °C	250 °C
HQI-T 250 W/N PLUS	0.84	0.76	0.74	0.72	0.68	Yes	46.0 mm	248.0 mm		150.00 g		
HQI-BT 400 W/D PRO <sup>2)</sup>	0.83	0.76	0.70	0.65	0.55	Yes	62.0 mm	285.0 mm	175.0 mm	200.00 g	500 °C	250 °C
HQI-T 400 W/N <sup>2)</sup>	0.85	0.79	0.68	0.65	0.62	Yes	46.0 mm	273.0 mm	175.0 mm	179.40 g	500 °C	250 °C
HQI-T 400 W/N/SI <sup>1)</sup>	0.76	0.67	0.60	0.51		Yes	57.0 mm	249.0 mm	160.0 mm	154.00 g	400 °C	250 °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-T 250 W/D PRO	0.95	0.90	0.80	0.70	0.50	12000 h	E40	Clear	18.0 mg	No	Any <sup>5)</sup>
HQI-T 250 W/N/SI <sup>1)</sup>	1.00	1.00	1.00	0.93		10000 h	E40	Clear	31.7 mg	No	Any
HQI-T 250 W/N PLUS	0.95	0.90	0.80	0.70	0.50		E40	Clear	18.0 mg	No	
HQI-BT 400 W/D PRO <sup>2)</sup>	0.99	0.98	0.95	0.90	0.80	16000 h	E40	Clear	59.0 mg	No	Any
HQI-T 400 W/N <sup>2)</sup>	0.99	0.98	0.93	0.83	0.50	12000 h	E40	Clear	52.0 mg	No	p45
HQI-T 400 W/N/SI <sup>1)</sup>	0.95	0.87	0.82	0.75		10000 h	E40	Clear	55.2 mg	No	Any

Product description	Enclosed luminaire required	Certificates & standards		Country specific categorizations
		Energy efficiency class	Energy consumption	ILCOS
HQI-T 250 W/D PRO	Yes	A	275 kWh/1000h	MT/UB-250/952-H/E/SL-E40-46/226
HQI-T 250 W/N/SI <sup>1)</sup>	Yes	A	275 kWh/1000h	MT-250/37/2B-H 133/S-E40-57.2/248
HQI-T 250 W/N PLUS	Yes	A	275 kWh/1000h	
HQI-BT 400 W/D PRO <sup>2)</sup>	Yes	A	462 kWh/1000h	MT/UB-400/960-H/E/SL-E40-62/285
HQI-T 400 W/N <sup>2)</sup>	Yes	A+	493 kWh/1000h	MT/UB-400/742-H/E/SL-E40-46/273/H
HQI-T 400 W/N/SI <sup>1)</sup>	Yes	A	440 kWh/1000h	MT/UB-400/637-H/S/SL-E40-57.2/248

<sup>1)</sup> With HQI control gear/Lamp ignites at an ignition voltage of 0.9...1.3 kV; lamps must not be operated with 4...5 kV igniters

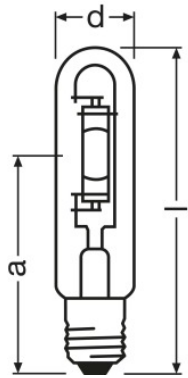
<sup>2)</sup> With NAV control gear

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

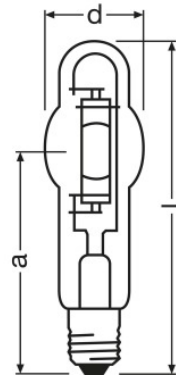
<sup>4)</sup> Minimum

<sup>5)</sup> Color shifts possible in base-down burning position

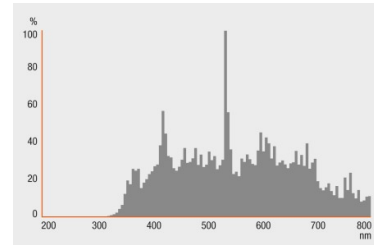
# Product family datasheet



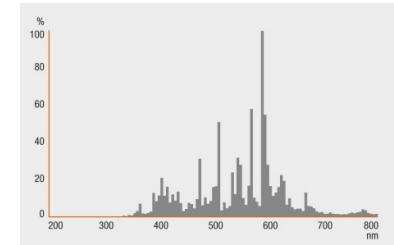
HQI-T 250 W/D PRO, HQI-T 250 W/N/SI, HQI-T 400 W/N, HQI-T 400 W/N/SI



HQI-BT 400 W/D PRO

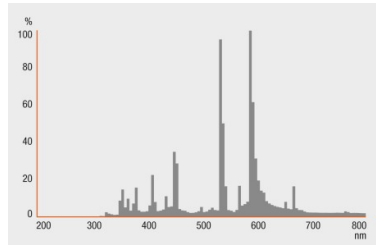


HQI-T 250 W/D PRO, HQI-BT 400 W/D PRO



HQI-T 250 W/N/SI, HQI-T 400 W/N/SI

## Product family datasheet



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HQI-T 400 W/N

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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
4008321677846	HQI-T 250 W/D PRO	Shipping carton box 12	277 mm x 281 mm x 217 mm	16.89 dm <sup>3</sup>	2304.00 g
4050300444604	HQI-T 250 W/N/SI	Shipping carton box 10	350 mm x 165 mm x 300 mm	17.33 dm <sup>3</sup>	2300.00 g
4052899196919	HQI-T 250 W/N PLUS	Shipping carton box 12	216 mm x 166 mm x 272 mm	9.75 dm <sup>3</sup>	2160.00 g

## Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321677860	HQI-BT 400 W/D PRO	Shipping carton box 12	342 mm x 347 mm x 258 mm	30.62 dm <sup>3</sup>	3534.00 g
4008321526786	HQI-T 400 W/N	Shipping carton box 12	263 mm x 341 mm x 214 mm	19.19 dm <sup>3</sup>	3007.00 g
4050300376431	HQI-T 400 W/N/SI	Shipping carton box 10	361 mm x 170 mm x 305 mm	18.72 dm <sup>3</sup>	2447.33 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.