

HQI-TS 400 W/NDL

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 datasheet

Technical data

Electrical data

Nominal wattage	400.00 W
Rated wattage	410.00 W
Lamp current	4.1 A
PFC capacitor at 50 Hz	45 μ F ¹⁾
Nominal voltage	118 V
Ignition voltage	4.0 / 25 kVp ²⁾
Rated lamp efficacy (standard condition)	88 lm/W

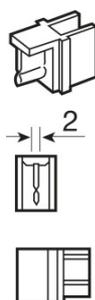
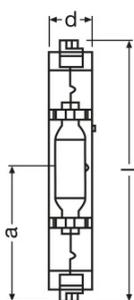
¹⁾ At rated voltage and $\cos \varphi \geq 0.9$

²⁾ Minimum / Maximum

Photometrical data

Rated luminous flux	36000 lm
Color rendering index Ra	85
Color temperature	4200 K
Light color	842
Rated LLMF at 2,000 h	0.70
Rated LLMF at 4,000 h	0.60
Rated LLMF at 6,000 h	0.55
Rated LLMF at 8,000 h	0.52
Rated LLMF at 12,000 h	0.50
UV protection	Yes

Dimensions & weight



Diameter	33.0 mm
Length	206.0 mm
Light center length (LCL)	103.0 mm

Product datasheet

Product weight	92.00 g
----------------	---------

Temperatures & operating conditions

Maximum permitted outer bulb temperature	650 °C
Maximum permitted pinch temperature	300 °C

Lifespan

Rated lamp survival factor at 2,000 h	0.95
Rated lamp survival factor at 4,000 h	0.90
Rated lamp survival factor at 6,000 h	0.85
Rated lamp survival factor at 8,000 h	0.80
Rated lamp survival factor at 12,000 h	0.50
Lifespan B50	12000 h

Additional product data

Base (standard designation)	Fc2
Product remark	Operate only with NAV control gear
Design / version	Clear
Lamp mercury content	29.0 mg

Capabilities

Dimmable	No
Burning position	p45
Enclosed luminaire required	Yes
Hot restart	Yes

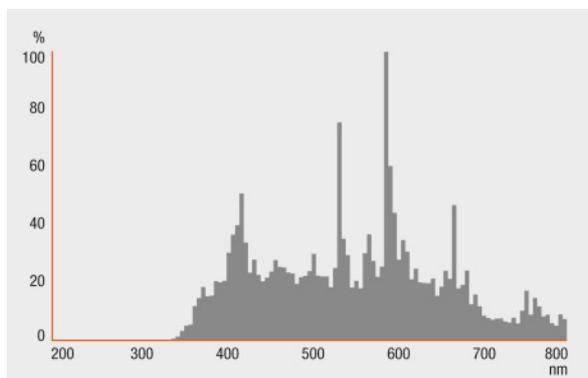
Certificates & standards

Energy efficiency class	A+
Energy consumption	451 kWh/1000h

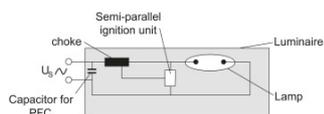
Country specific categorizations

ILCOS	MD/UB-400/842-H/E/SL-Fc2-25/162/H
-------	-----------------------------------

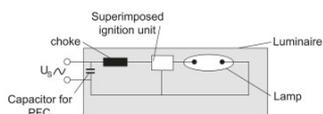
Light Distribution



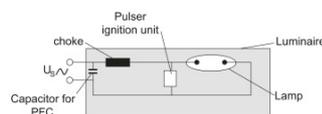
Spectral power distribution



Circuit diagram



Circuit diagram



Circuit diagram

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321689214	HQI-TS 400 W/NDL	Shipping carton box 12	216 mm x 166 mm x 272 mm	9.75 dm ³	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.

Product datasheet

Disclaimer

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