

# PRODUCT FAMILY DATASHEET

## 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



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 70 W/WDL     | 78.00 W         | 0.95 A       | 12 µF <sup>1)</sup>    | 70.00 W         | 98 V            | 3.6 / 36 kVp <sup>2)</sup> | 76 lm/W                                  | 5925 lm             | 3300 K            | 633         | 0.68                  |
| HQI-TS 70 W/NDL     | 78.00 W         | 0.95 A       | 12 µF <sup>1)</sup>    | 70.00 W         | 93 V            | 3.6 / 36 kVp <sup>2)</sup> | 83 lm/W                                  | 6500 lm             | 4200 K            | 742         | 0.92                  |
| HQI-TS 70 W/D       | 78.00 W         | 0.95 A       | 12 µF <sup>1)</sup>    | 70.00 W         | 92 V            | 3.6 / 36 kVp <sup>2)</sup> | 75 lm/W                                  | 6200 lm             | 5350 K            | 754         | 0.95                  |
| HQI-TS 150 W/WDL    | 150.00 W        | 1.8 A        | 20 µF <sup>1)</sup>    | 150.00 W        | 93 V            | 3.6 / 36 kVp <sup>2)</sup> | 80 lm/W                                  | 12000 lm            | 3100 K            | 731         | 0.79                  |
| HQI-TS 150 W/NDL    | 150.00 W        | 1.8 A        | 20 µF <sup>1)</sup>    | 150.00 W        | 95 V            | 3.6 / 36 kVp <sup>2)</sup> | 83 lm/W                                  | 12500 lm            | 4200 K            | 842         | 0.86                  |
| HQI-TS 150 W/D      | 150.00 W        | 1.8 A        | 20 µF <sup>1)</sup>    | 150.00 W        | 100 V           | 3.6 / 36 kVp <sup>2)</sup> | 86 lm/W                                  | 13000 lm            | 5450 K            | 855         | 0.86                  |

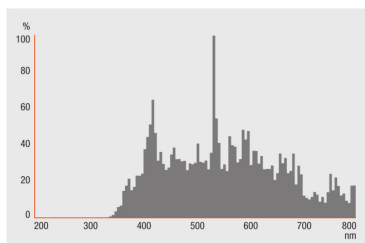
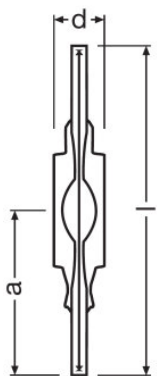
| Product description |                       |                       |                       |                        |               |               |                          | Dimensions & weight |          |                           |                | Temperatures & operating conditions   |
|---------------------|-----------------------|-----------------------|-----------------------|------------------------|---------------|---------------|--------------------------|---------------------|----------|---------------------------|----------------|---------------------------------------|
|                     | 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 | Luminous flux | Color rendering index Ra | Diameter            | Length   | Light center length (LCL) | Product weight | Max. permitted outer bulb temperature |
| HQI-TS 70 W/WDL     | 0.64                  | 0.56                  | 0.50                  | 0.45                   | Yes           | 5925 lm       | 67                       | 19.0 mm             | 117.0 mm | 57.0 mm                   | 15.00 g        | 500 °C                                |
| HQI-TS 70 W/NDL     | 0.90                  | 0.85                  | 0.78                  | 0.73                   | Yes           | 6500 lm       | 78                       | 19.0 mm             | 117.0 mm | 57.0 mm                   | 17.00 g        | 500 °C                                |
| HQI-TS 70 W/D       | 0.93                  | 0.85                  | 0.82                  | 0.75                   | Yes           | 6200 lm       | 75                       | 19.0 mm             | 117.0 mm | 57.0 mm                   | 17.00 g        | 500 °C                                |
| HQI-TS 150 W/WDL    | 0.75                  | 0.67                  | 0.60                  | 0.50                   | Yes           | 12000 lm      | 70                       | 23.0 mm             | 135.0 mm | 66.0 mm                   | 22.00 g        | 500 °C                                |
| HQI-TS 150 W/NDL    | 0.84                  | 0.80                  | 0.77                  | 0.73                   | Yes           | 12500 lm      | 80                       | 23.0 mm             | 135.0 mm | 66.0 mm                   | 22.00 g        | 450 °C                                |
| HQI-TS 150 W/D      | 0.84                  | 0.77                  | 0.74                  | 0.70                   | Yes           | 13000 lm      | 81                       | 23.0 mm             | 135.0 mm | 66.0 mm                   | 22.00 g        | 450 °C                                |

| Product description | Max. permitted pinch temp. | 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     | 350 °C                     | 0.95                                  | 0.90                                  | 0.85                                  | 0.80                                  | 0.50                                   | 12000 h      | RX7s                        | clear            | 12.6 mg         | No           | p45              |
| HQI-TS 70 W/NDL     | 350 °C                     | 0.95                                  | 0.90                                  | 0.85                                  | 0.80                                  | 0.50                                   | 12000 h      | RX7s                        | clear            | 10.6 mg         | No           | p45              |
| HQI-TS 70 W/D       | 350 °C                     | 0.95                                  | 0.90                                  | 0.85                                  | 0.80                                  | 0.50                                   | 12000 h      | RX7s                        | clear            | 9.9 mg          | No           | p45              |
| HQI-TS 150 W/WDL    | 350 °C                     | 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    | 350 °C                     | 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      | 350 °C                     | 0.95                                  | 0.90                                  | 0.85                                  | 0.80                                  | 0.50                                   | 12000 h      | RX7s-24                     | clear            | 12.1 mg         | No           | p45              |

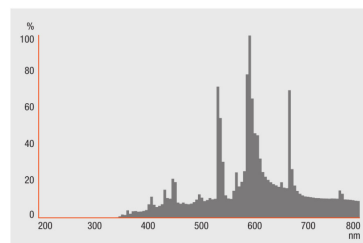
| Product description | Enclosed luminaire required | Hot restart | Certificates & standards | Country-specific categorizations      |
|---------------------|-----------------------------|-------------|--------------------------|---------------------------------------|
|                     |       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

<sup>1)</sup> At rated voltage and  $\cos \varphi \geq 0.9$

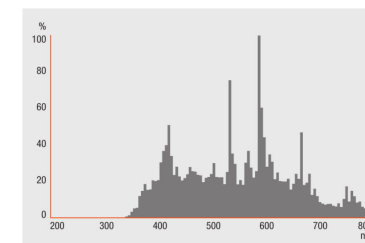
<sup>2)</sup> Minimum



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



HQI-TS 150 W/WDL



HQI-TS 150 W/NDL

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

### SYSTEM GUARANTEE

When operated with OSRAM POWERTRONIC control gear, an extended system guarantee is granted for these lamps

### 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               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4008321678317 | Shipping carton box<br>12    | 149 mm x 136 mm x 118 mm             | 386.00 g     | 2.39 dm <sup>3</sup> |
| 4008321678331 | Shipping carton box<br>12    | 149 mm x 136 mm x 118 mm             | 410.00 g     | 2.39 dm <sup>3</sup> |

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4008321678355 | Shipping carton box<br>12    | 149 mm x 139 mm x 116 mm             | 410.00 g     | 2.40 dm <sup>3</sup> |
| 4008321678379 | Shipping carton box<br>12    | 154 mm x 159 mm x 123 mm             | 498.00 g     | 3.01 dm <sup>3</sup> |
| 4008321678393 | Shipping carton box<br>12    | 154 mm x 156 mm x 121 mm             | 498.00 g     | 2.91 dm <sup>3</sup> |
| 4008321678416 | Shipping carton box<br>12    | 154 mm x 156 mm x 116 mm             | 498.00 g     | 2.79 dm <sup>3</sup> |

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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#### 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)

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#### DISCLAIMER

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