**DSX2 LED**

**Series**
- DSX2 LED

**LEDs**
- Forward optics
  - P1, P5
  - P2, P6
  - P3, P7
  - P4, P8
- Rotated optics
  - P10, P13
  - P11, P14
  - P12

**Color temperature**
- 30K, 3000K, 40K, 4000K, 50K, 5000K, AMBPC, Amber phosphor converted

**Distribution**
- T1S, Type I Short
  - T2S, Type II Short
  - T2M, Type II Medium
  - T3S, Type III Short
  - T3M, Type III Medium
  - T4M, Type IV Medium
  - TFTM, Forward Throw Medium

**Voltage**
- MVOLT
- 120V, 208V, 240V, 277V, 347V, 480V

**Mounting**
- SPA, Square pole mounting
- RPA, Round pole mounting
- WBA, Wall bracket
- SPUMBA, Square pole universal mounting adaptor
- RPUMBA, Round pole universal mounting adaptor
- KMA8 DOBBXD U, Mast arm mounting bracket adaptor

**Specifications**
- EPA: 1.1 ft² (0.10 m²)
- Length: 40" (101.6 cm)
- Width: 15" (38.1 cm)
- Height: 7-1/4" (18.4 cm)
- Weight (max): 36 lbs (16.3 kg)

**D-Plus Capable Luminaire**
- This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.
  - All configurations of this luminaire meet the Acuity Brands’ specification for chromatic consistency.
  - This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability.
  - This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

**Ordering Information**

**EXAMPLE:** DSX2 LED P7 T3M MVOLT SPA DDBXD
**Ordering Information**

### Accessories
Ordered and shipped separately.

- DLL327F 1.5 JU Photocell - SSL twist-lock (347V)
- DLL480F 1.5 CUL JU Photocell - SSL twist-lock (480V)
- DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V)
- DLL127F 1.5 JU Photocell - SSL twist-lock (120-277V)

For more control options, visit DTL and ROAM online.

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### Drilling

**HANDHOLE ORIENTATION**

![Diagram of handhole orientation](image)

**Template #8**

- Top of Pole
- Tenon O.D.
- Single Unit
- 2 at 180°
- 2 at 90°
- 3 at 120°
- 3 at 90°
- 4 at 90°
- 1 @ 90°
- 2 @ 280°
- 2 @ 90°
- 3 @ 120°
- 3 @ 90°
- 4 @ 90°

**Pole drilling nomenclature:** # of heads at degree from handhole (default side A)

<table>
<thead>
<tr>
<th>Pole or tenon O.D.</th>
<th>4.5° @ 90°</th>
<th>4° @ 90°</th>
<th>3.5° @ 90°</th>
<th>3° @ 90°</th>
<th>2.5° @ 120°</th>
<th>4° @ 120°</th>
<th>3.5° @ 120°</th>
<th>3° @ 120°</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLL250  190</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DLL250  280</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DLL250  290</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DLL250  320</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

*Note: Review luminaire spec sheet for specific nomenclature*

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### Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting’s D-Series Area Size 2 homepage.

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').

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**Legend**

- 0.1 fc
- 0.5 fc
- 1.0 fc
## Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

<table>
<thead>
<tr>
<th>Ambient</th>
<th>Lumen Multiplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°C</td>
<td>1.04</td>
</tr>
<tr>
<td>5°C</td>
<td>1.04</td>
</tr>
<tr>
<td>10°C</td>
<td>1.03</td>
</tr>
<tr>
<td>15°C</td>
<td>1.02</td>
</tr>
<tr>
<td>20°C</td>
<td>1.01</td>
</tr>
<tr>
<td>25°C</td>
<td>1.00</td>
</tr>
<tr>
<td>30°C</td>
<td>0.99</td>
</tr>
<tr>
<td>35°C</td>
<td>0.98</td>
</tr>
<tr>
<td>40°C</td>
<td>0.97</td>
</tr>
</tbody>
</table>

## Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

<table>
<thead>
<tr>
<th>Operating Hours</th>
<th>0</th>
<th>25000</th>
<th>50000</th>
<th>100000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumen Maintenance Factor</td>
<td>1.00</td>
<td>0.96</td>
<td>0.92</td>
<td>0.85</td>
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</tbody>
</table>

## Electrical Load

<table>
<thead>
<tr>
<th>Performance Package</th>
<th>LED Count</th>
<th>Drive Current</th>
<th>Wattage</th>
<th>Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>120</td>
</tr>
<tr>
<td>P1</td>
<td>80</td>
<td>530</td>
<td>140</td>
<td>1.18</td>
</tr>
<tr>
<td>P2</td>
<td>80</td>
<td>700</td>
<td>140</td>
<td>1.46</td>
</tr>
<tr>
<td>P3</td>
<td>80</td>
<td>850</td>
<td>217</td>
<td>1.82</td>
</tr>
<tr>
<td>P4</td>
<td>80</td>
<td>1050</td>
<td>270</td>
<td>2.27</td>
</tr>
<tr>
<td>P5</td>
<td>80</td>
<td>1250</td>
<td>321</td>
<td>2.68</td>
</tr>
<tr>
<td>P6</td>
<td>100</td>
<td>1050</td>
<td>343</td>
<td>2.89</td>
</tr>
<tr>
<td>P7</td>
<td>100</td>
<td>1250</td>
<td>398</td>
<td>3.31</td>
</tr>
<tr>
<td>P8</td>
<td>100</td>
<td>1350</td>
<td>431</td>
<td>3.61</td>
</tr>
<tr>
<td>P9</td>
<td>90</td>
<td>530</td>
<td>156</td>
<td>1.30</td>
</tr>
<tr>
<td>P10</td>
<td>90</td>
<td>700</td>
<td>207</td>
<td>1.75</td>
</tr>
<tr>
<td>P11</td>
<td>90</td>
<td>850</td>
<td>254</td>
<td>2.12</td>
</tr>
<tr>
<td>P12</td>
<td>90</td>
<td>1200</td>
<td>344</td>
<td>2.88</td>
</tr>
<tr>
<td>P13</td>
<td>90</td>
<td>1400</td>
<td>405</td>
<td>3.39</td>
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</table>

## Motion Sensor Default Settings

<table>
<thead>
<tr>
<th>Option</th>
<th>Dimmed State</th>
<th>High Level (when triggered)</th>
<th>Photocell Operation</th>
<th>Dwell Time</th>
<th>Ramp-up Time</th>
<th>Ramp-down Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIR or PIRH</td>
<td>3V (37%) Output</td>
<td>10V (100%) Output</td>
<td>Enabled @ 5FC</td>
<td>5 min</td>
<td>3 sec</td>
<td>5 min</td>
</tr>
<tr>
<td>PIRH1FC3V or PIRH2FC3V</td>
<td>3V (37%) Output</td>
<td>10V (100%) Output</td>
<td>Enabled @ 1FC</td>
<td>5 min</td>
<td>3 sec</td>
<td>5 min</td>
</tr>
</tbody>
</table>

*PIR or PIRH, PIRH1FC3V or PIRH2FC3V for use with Inline Dusk to Dawn or timer.

## PER Table

<table>
<thead>
<tr>
<th>Control</th>
<th>PER (3 wire)</th>
<th>PER5 (5 wire)</th>
<th>PER7 (7 wire)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wire 4/Wire5</td>
<td>Wire 4/Wire5</td>
<td>Wire 6/Wire7</td>
</tr>
<tr>
<td>Photocell Only (On/Off)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>ROAM</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>ROAM with Motion (ROAM on/off only)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Future-proof*</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Future-proof* with Motion</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

*Recommended | Will not work | Alternate

*Future-proof means: Ability to change controls in the future.
## Performance Data

### Forward Optics

<table>
<thead>
<tr>
<th>LED Count</th>
<th>Drive Current</th>
<th>Power Package</th>
<th>System Watts</th>
<th>30K (3000 K, 70 CRI)</th>
<th>40K (4000 K, 70 CRI)</th>
<th>50K (5000 K, 70 CRI)</th>
<th>AMBPC (Amber Phosphor Converted)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>80</strong></td>
<td>530</td>
<td>P1</td>
<td>140W</td>
<td>T15, T25, T35, T45</td>
<td>T1T, T2T, T3T, T4T</td>
<td>T5T, T6T, T7T, T8T</td>
<td></td>
</tr>
<tr>
<td><strong>80</strong></td>
<td>700</td>
<td>P2</td>
<td>185W</td>
<td>T15, T25, T35, T45</td>
<td>T1T, T2T, T3T, T4T</td>
<td>T5T, T6T, T7T, T8T</td>
<td></td>
</tr>
<tr>
<td><strong>80</strong></td>
<td>850</td>
<td>P3</td>
<td>217W</td>
<td>T15, T25, T35, T45</td>
<td>T1T, T2T, T3T, T4T</td>
<td>T5T, T6T, T7T, T8T</td>
<td></td>
</tr>
<tr>
<td><strong>80</strong></td>
<td>1050</td>
<td>P4</td>
<td>270W</td>
<td>T15, T25, T35, T45</td>
<td>T1T, T2T, T3T, T4T</td>
<td>T5T, T6T, T7T, T8T</td>
<td></td>
</tr>
</tbody>
</table>

### Lumen Output

- **Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.**
- **Contact factory for performance data on any configurations not shown here.**

#### Lumen Output Table

<table>
<thead>
<tr>
<th>LED Count</th>
<th>Drive Current</th>
<th>Power Package</th>
<th>System Watts</th>
<th>30K (3000 K, 70 CRI)</th>
<th>40K (4000 K, 70 CRI)</th>
<th>50K (5000 K, 70 CRI)</th>
<th>AMBPC (Amber Phosphor Converted)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>530</td>
<td>P1</td>
<td>140W</td>
<td>T15, T25, T35, T45</td>
<td>T1T, T2T, T3T, T4T</td>
<td>T5T, T6T, T7T, T8T</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>700</td>
<td>P2</td>
<td>185W</td>
<td>T15, T25, T35, T45</td>
<td>T1T, T2T, T3T, T4T</td>
<td>T5T, T6T, T7T, T8T</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>850</td>
<td>P3</td>
<td>217W</td>
<td>T15, T25, T35, T45</td>
<td>T1T, T2T, T3T, T4T</td>
<td>T5T, T6T, T7T, T8T</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>1050</td>
<td>P4</td>
<td>270W</td>
<td>T15, T25, T35, T45</td>
<td>T1T, T2T, T3T, T4T</td>
<td>T5T, T6T, T7T, T8T</td>
<td></td>
</tr>
</tbody>
</table>

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**DSX2-LED**

**Rev. 03/21/18**

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## Performance Data

### Lumen Output

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### Forward Optics

<table>
<thead>
<tr>
<th>LED Count</th>
<th>Drive Current</th>
<th>Power Package</th>
<th>System Watts</th>
<th>Dist. Type</th>
<th>30K (3000 K, 70 CRI)</th>
<th>40K (4000 K, 70 CRI)</th>
<th>50K (5000 K, 70 CRI)</th>
<th>AMBPC (Amber Phosphor Converted)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>1250</td>
<td>P5</td>
<td>321W</td>
<td>T15</td>
<td>35,193 4 0 4 110 37,912 4 0 4 118 38,392 4 0 4 120</td>
<td>35,155 4 0 5 110 37,872 4 0 5 118 38,351 4 0 5 119</td>
<td>35,336 4 0 4 110 38,067 4 0 4 119 38,549 4 0 4 120</td>
<td>34,222 4 0 5 107 36,866 4 0 5 115 37,333 4 0 5 116</td>
</tr>
<tr>
<td>1050</td>
<td>1050</td>
<td>P6</td>
<td>343W</td>
<td>T15</td>
<td>37,824 4 0 4 110 40,747 4 0 4 119 41,263 4 0 4 120 21,838 1 0 1 64</td>
<td>37,784 4 0 5 110 40,704 4 0 5 119 41,219 4 0 5 120 21,747 1 0 1 64</td>
<td>37,979 4 0 4 111 40,913 4 0 4 119 41,431 4 0 4 121 21,824 1 0 1 64</td>
<td>36,780 4 0 5 107 39,623 4 0 5 116 40,124 4 0 5 117 21,776 1 0 1 63</td>
</tr>
<tr>
<td>100</td>
<td>1250</td>
<td>P7</td>
<td>390W</td>
<td>T15</td>
<td>37,824 4 0 4 110 40,747 4 0 4 119 41,263 4 0 4 120 21,838 1 0 1 64</td>
<td>37,784 4 0 5 110 40,704 4 0 5 119 41,219 4 0 5 120 21,747 1 0 1 64</td>
<td>37,979 4 0 4 111 40,913 4 0 4 119 41,431 4 0 4 121 21,824 1 0 1 64</td>
<td>36,780 4 0 5 107 39,623 4 0 5 116 40,124 4 0 5 117 21,776 1 0 1 63</td>
</tr>
<tr>
<td>100</td>
<td>1350</td>
<td>P8</td>
<td>440W</td>
<td>T15</td>
<td>37,824 4 0 4 110 40,747 4 0 4 119 41,263 4 0 4 120 21,838 1 0 1 64</td>
<td>37,784 4 0 5 110 40,704 4 0 5 119 41,219 4 0 5 120 21,747 1 0 1 64</td>
<td>37,979 4 0 4 111 40,913 4 0 4 119 41,431 4 0 4 121 21,824 1 0 1 64</td>
<td>36,780 4 0 5 107 39,623 4 0 5 116 40,124 4 0 5 117 21,776 1 0 1 63</td>
</tr>
</tbody>
</table>

**Notes:**
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- Contact factory for performance data on any configurations not shown here.

### Additional Notes:
- **(3000 K, 70 CRI)**
- **(4000 K, 70 CRI)**
- **(5000 K, 70 CRI)**
- **(Amber Phosphor Converted)**

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**DSX2-LED**

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## Performance Data

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

### Rotated Optics

<table>
<thead>
<tr>
<th>LED Count</th>
<th>Drive Current</th>
<th>Power Package</th>
<th>System Watts</th>
<th>Dist. Type</th>
<th>Lumen</th>
<th>B U G</th>
<th>LPW</th>
<th>Lumen</th>
<th>B U G</th>
<th>LPW</th>
<th>Lumen</th>
<th>B U G</th>
<th>LPW</th>
</tr>
</thead>
<tbody>
<tr>
<td>90</td>
<td>530</td>
<td>P10</td>
<td>150W</td>
<td>T15</td>
<td>20,145</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>129</td>
<td>21,702</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>90</td>
<td>700</td>
<td>P11</td>
<td>200W</td>
<td>T15</td>
<td>25,518</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>123</td>
<td>27,490</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>90</td>
<td>850</td>
<td>P12</td>
<td>250W</td>
<td>T15</td>
<td>29,912</td>
<td>4</td>
<td>0</td>
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<td>118</td>
<td>32,223</td>
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<td>0</td>
<td>4</td>
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<tr>
<td>90</td>
<td>1200</td>
<td>P13</td>
<td>300W</td>
<td>T15</td>
<td>38,768</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>113</td>
<td>41,764</td>
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<td>0</td>
<td>5</td>
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<td>400W</td>
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<td>42,621</td>
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<td>5</td>
<td>105</td>
<td>45,914</td>
<td>5</td>
<td>0</td>
<td>5</td>
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### Lumen Output

<table>
<thead>
<tr>
<th>Lumen Values</th>
<th>B</th>
<th>U</th>
<th>G</th>
<th>LPW</th>
</tr>
</thead>
<tbody>
<tr>
<td>30K (3000 K, 70 CRI)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50K (4000 K, 70 CRI)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70K (5000 K, 70 CRI)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMBPC (Amber Phosphor Converted)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Notes

- Contact factory for performance data on any configurations not shown here.
- Lumen values are from photometric tests performed in accordance with IESNA LM-79-08.
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FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft²) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

LISTINGS
UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY
5-year limited warranty.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.