Lighting Global Product Testing Verification

Bright Move Smart

Expiration Date: August 31, 2020
Verify here: www.lightingglobal.org/products/bp-movesmart

This verifies that the Bright Move Smart was tested according to the Quality Test Method stipulated in the latest edition of IEC 62257-9-5 and complied with the Lighting Global Quality Standards.¹

**Testing Details:**
- **Product Name:** Bright Move Smart
- **Model Number:** --
- **Company Name:** Bright Products
- **Country of Origin:** China
- **Company Contact:** Eva Klingen, info@bright-products.com
- **Original QTM Sample Size:** n=6
- **Renewal Test Conducted:** n/a
- **Sample Procurement Method:** Random warehouse sampling
- **Testing Laboratory:** Shenzhen Academy of Metrology and Quality Inspection, Shenzhen, Guangdong, China

**Documentation:**
Specifications sheet with verified test results and original version of this verification:
www.lightingglobal.org/products/bp-movesmart

Russell Sturm
Global Head, Energy Access
Lighting Global Project Manager
International Finance Corporation

¹ Lighting Global requires re-testing every two years or upon major product revisions, and in special cases reserves the right to grant an extension on results validity.

² [www.lightingglobal.org/quality-assurance-program/](http://www.lightingglobal.org/quality-assurance-program/)

## Type Approval

**Bright Move Smart**

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<table>
<thead>
<tr>
<th>Category</th>
<th>Quality Standard</th>
<th>Verdict</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Truth In Advertising</strong></td>
<td>Manufacturer accurately specified</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Product Name and Model Number accurately specified</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>Performance and Component Ratings accurately specified. Any description of the product that appears on the packaging, inside the package and in any media shall be truthful and accurate. No statements shall mislead buyers or end users about the utility of the product. Numeric ratings must deviate no more than 15% from actual performance (note that it is acceptable for actual performance to exceed advertised performance).</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>Lumen Maintenance</strong></td>
<td>Average relative light output ≥ 85% of initial light output at 2,000 hours with only one sample allowed to fall below 75% OR All 6 samples maintain ≥ 95% of initial light output at 1,000 hours</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>AC-DC Charger Safety</strong></td>
<td>Any included AC-DC charger carries approval from a recognized consumer electronics safety regulator</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Battery Composition</strong></td>
<td>No battery may contain cadmium or mercury at levels greater than trace amounts</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>Battery Protection</strong></td>
<td>Protected by an appropriate charge controller that prolongs battery life and protects the safety of the user. 5 out of 6 samples must meet the requirements outlined in Lighting Global Quality Standards.</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>Battery Durability</strong></td>
<td>The average capacity loss of 6 samples must not exceed 25% and only one sample may have a capacity loss greater than 35% following the battery durability storage test as defined in IEC/TS 62257-9-5 Annex BB* *This product also meets the Battery Longevity requirement described in KS 2542:2014: the measured capacity after storage is at least 80% of the measured capacity before storage; no more than 1/6 samples fail</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>Physical Ingress Protection</strong></td>
<td>IP2X for all products, IP3X (or 2X + circuit protection) for PV modules, IP5X for fixed outdoor products</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>Water Ingress Protection</strong></td>
<td>Degree of protection required is based on product type: Fixed separate (indoor): No protection required Portable separate: Occasional exposure to rain Portable integrated: Frequent exposure to rain Fixed integrated (outdoor): Permanent outdoor exposure PV modules: Outdoor rooftop installation</td>
<td>Pass</td>
</tr>
</tbody>
</table>
Type Approval Continued  
Bright Move Smart

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| Drop Test                       | Fixed separate (indoors): No requirement  
All other products: 5 out of 6 samples are functional after drop test; none result in dangerous failures                                                                                                        | Pass    |
| Soldering and Electronics Workmanship | The system and any included appliances must be rated “Good” or “Fair” for workmanship quality as defined in Annex F of IEC/TS 62257-9-5. At most, one sample may fail to function when initially evaluated. | Pass    |
| Mechanical Durability           | 6 samples are functional after Switch, Connector, Gooseneck and Strain Relief tests; none result in dangerous failures                                                                                               | Pass    |
| Minimum Warranty Terms          | Accurately specified and consumer-facing; minimum coverage of at least one year on manufacturing defects under normal use, including the battery. Detailed requirements are specified in the Lighting Global Quality Standards   | Pass    |
| Performance Reporting           | Light output and the corresponding solar run time are reported on the product packaging for at least the brightest setting.                                                                                         | Pass    |
|                                 | Impact of mobile phone charging on product performance is qualitatively described on packaging.                                                                                                               | Pass    |

Additional details on the requirements listed above are provided in the Lighting Global Quality Standards, available here: www.lightingglobal.org/quality-assurance-program/our-standards/

All Quality Standards are evaluated based on test methods described in the latest edition of IEC/TS 62257-9-5.