### PERFORMANCE DETAILS

<table>
<thead>
<tr>
<th>Appliancea</th>
<th>Description</th>
<th>Used aloneb</th>
<th>Used in combinationc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main lighting unit</td>
<td>3 light points on high totaling 600 lumens and 4.8 W</td>
<td>20 hours</td>
<td>5.4 hours</td>
</tr>
<tr>
<td>Portable Lamp</td>
<td>83 lumens portable lantern, (LiFePO4 battery: 1000 mAh, 3.2 V)</td>
<td>120 hours</td>
<td>5.4 hours</td>
</tr>
<tr>
<td>Television</td>
<td>24&quot; diagonal (11 W power consumption while in-use)</td>
<td>11 hours</td>
<td>2.7 hours</td>
</tr>
<tr>
<td>Mobile phone</td>
<td>Basic phone (3.7 Wh battery)</td>
<td>22 full charge(s)</td>
<td>1.4 full charge(s)</td>
</tr>
<tr>
<td>Radio</td>
<td>Portable radio with 3 Wh battery and a power consumption of 0.34 W while in use</td>
<td>255 hours</td>
<td>4.1 hours</td>
</tr>
<tr>
<td>Fan</td>
<td>16&quot; inch table fan (7.8 W power)</td>
<td>16 hours</td>
<td>6.8 hours</td>
</tr>
</tbody>
</table>

*Note, the run time values are for the router connected to 5 cubes*

### LIGHTING DETAILS

<table>
<thead>
<tr>
<th>Lamp name</th>
<th>Number of lamps</th>
<th>Number of settings</th>
<th>Setting</th>
<th>Light output (lm)</th>
<th>Lumen efficacye (lm/W)</th>
<th>CRIf</th>
<th>CCTg</th>
<th>Distribution type</th>
<th>Lumen maintenanceh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hanging Lamp</td>
<td>3</td>
<td>2</td>
<td>High</td>
<td>200</td>
<td>120</td>
<td>84</td>
<td>6900</td>
<td>Wide</td>
<td>100%</td>
</tr>
<tr>
<td>Portable Lamp</td>
<td>1</td>
<td>3</td>
<td>Super Bright</td>
<td>83</td>
<td>130</td>
<td>84</td>
<td>5500</td>
<td>Wide</td>
<td>99%</td>
</tr>
</tbody>
</table>

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**Rural Spark Energy Kit**

Rural Spark B.V.

Results based on test procedures detailed in IEC 62257-9-5 v.4

Verifies online: [https://data.verasol.org/products/sek/RS-energykit](https://data.verasol.org/products/sek/RS-energykit)

Valid until: August 31, 2022

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Mobile charging

Light point(s)

Plug-and-play

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### WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system

### LIGHTPOINT SPECIFICATIONS

- **Hanging Lamp**: 200 lm, 120 lm/W, CRI 84, CCT 6900 K, Wide, 100%
- **Portable Lamp**: 83 lm, 130 lm/W, CRI 84, CCT 5500 K, Wide, 99%

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**Note:** The run time values are for the router connected to 5 cubes.

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**Performance measure**

- **Lighting full battery run time** for the main unit (hours): 20
- **Lighting full battery run time of the Portable lamp powered by Portable lamp battery** (hours): 3.9
- **Total lighting service (lumen-hours/solar-day)**: 13500

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**Lumen efficacy** is the power consumption at a light point during the light output test.

**CRI** (Color Rendering Index): An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

**CCT** (Correlated Color Temperature in Kelvin): Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

**Percent of the original light output that remains after 2,000 hours of run time.**
**SPECIAL FEATURES**

- switchable outputs: The portable lamp and hanging lamps have their own switch.
- bi-directional flow: The energy can flow bi-directionally inside the router.
- multi-source: The TV can be played via VGA, HDMI, AV, USB, ATV and DTV.
- five cubes: The battery capacity of the system may be increased by adding up to four additional cubes for a total of 5.

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**PORTS**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>USB 2.0 type A</td>
<td>Mobile phones can be charged. Adapters are not included. There are 16 USB output ports on the router and two on each cube. When the 5 cubes are plugged in to the router, a total of 16 USB ports are available for charging devices.</td>
</tr>
<tr>
<td>2</td>
<td>Banana jack</td>
<td>There are two 12 V ports on the router (each port has a separate positive and negative jack)</td>
</tr>
</tbody>
</table>

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**DURABILITY**

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall durability and workmanship</td>
<td>Pass</td>
</tr>
<tr>
<td>Durability tests passed</td>
<td>Cube: Has protection from occasional rain; met IPX1, PV module: Has protection from permanent outdoor exposure, Router: Water ingress protection not tested, meant for indoor use only, Hanging Lamp: Water ingress protection not tested, meant for indoor use only, Portable Lamp: Has protection from occasional rain; met with appropriate warning label</td>
</tr>
</tbody>
</table>

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**SOLAR DETAILS**

- PV module type: Polycrystalline silicon
- PV maximum power: 42 watts

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**MAIN UNIT BATTERY DETAILS**

- Battery replaceability: Not easily replaceable with common tools.
- Battery chemistry: Lithium iron phosphate
- Battery package type: 26650
- Battery capacity*: 3.3 Ah*
- Battery nominal voltage: 6.4 V
- Battery status indication: 3 indicators for battery state of charge

*Note that the battery capacity listed is for one cube. The system can add up to five cubes total, which would increase the systems’ battery capacity to 16.5 Ah.

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**MARKS AND CERTIFICATIONS**

- Other certification: IEC 61215:2005

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**PRODUCT DETAILS**

- Manufacturer name: Rural Spark B.V.
- Product name: Rural Spark Energy Kit
- Product model / ID number: --
- Contact information: shagun@ruralspark.com
- Website: www.ruralspark.com
- Dimensions (entire product in package): Multiple packages. Contact manufacturer for more information.
- Mass: Multiple packages. Contact manufacturer for more information.

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**SSS INFORMATION**

- Specs sheet expiration date: August 31, 2022
- Quality standards framework version: 2020
- Revision: 2020.08