Morningstar’s advanced SunLight solar lighting controller combines the SunSaver design with a microcontroller for automatic lighting control functions.

This technology provides:
- Proven Reliability
- Precise Lighting Control
- PWM Battery Charging

Operation:
- Rotary digital switch to select among 10 lighting options (see back)
- Test button flashes red LED to confirm correct rotary switch selection
- Test button turns lights on for 5 minutes (in LVD limited to 3 times)
- LVD overrides lighting timer
- Sunrise overrides lighting timer
- Timer accuracy is within 2 seconds

Four Versions Available:
- 12 Volt: 10 and 20 amp ratings
- 24 Volt: 10 and 20 amp ratings

Features:
- Microcontroller digital accuracy
- Fully automatic operation
- Ten field adjustable lighting control options
- Special on/off/on functions
- Manual test capability
- LVD override protection
- Detects day and night using the PV array
- Suitable for all 12/24 Vdc lamps
- Sealed/Flooded battery select
- Temperature compensation
- Parallel with a SunSaver for 40 amps solar
- Includes SunSaver battery charging circuit
**Lighting Control Options**

- OFF
- 2 HOURS ON
- 4 HOURS ON
- 6 HOURS ON
- 8 HOURS ON
- 10 HOURS ON
- 3 / OFF / 1
- 4 / OFF / 2
- 6 / OFF / 2
- DUSK-to-DAWN

**Mechanical Specifications**
- Wire size #10 AWG (5.2 mm²)
- Anodized aluminum case
- Marine rated terminals
- Epoxy encapsulated
- Weight is 9 oz (0.26 kg)

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>12 Volt</th>
<th>24 Volt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Solar Input</td>
<td>10/20 A</td>
<td>10/20 A</td>
</tr>
<tr>
<td>Rated Load</td>
<td>10/20 A</td>
<td>10/20 A</td>
</tr>
<tr>
<td>25% Current Overload</td>
<td>5 min.</td>
<td>5 min.</td>
</tr>
<tr>
<td>Regulation Voltage:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sealed Battery</td>
<td>14.1 V</td>
<td>28.2 V</td>
</tr>
<tr>
<td>Flooded Battery</td>
<td>14.4 V</td>
<td>28.8 V</td>
</tr>
<tr>
<td>Load Disconnect</td>
<td>11.7 V</td>
<td>23.4 V</td>
</tr>
<tr>
<td>LVD Reconnect</td>
<td>12.8 V</td>
<td>25.6 V</td>
</tr>
<tr>
<td>Temp. Comp. (mV/°C)</td>
<td>–27</td>
<td>–54</td>
</tr>
<tr>
<td>Self-consumption</td>
<td>8 mA</td>
<td>9 mA</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>–40 to +85°C</td>
<td></td>
</tr>
</tbody>
</table>

**WARRANTY:** Five year warranty period. Contact Morningstar or your authorized distributor for complete terms.

**AUTHORIZED MORNINGSTAR DISTRIBUTOR:**

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