The FLS-300 Light Source is part of EXFO’s new line of handheld units, which includes the FPM-300 Power Meter and the FOT-300 Optical Loss Test Set.

**KEY FEATURES**

- Multifunctional light source: up to three singlemode wavelengths on a single port, or four wavelengths (two multimode, and two singlemode) on two ports

- Power autonomy of 120 hours

- Highest output power in the industry

- Three-year warranty and recommended calibration interval, for dramatically reduced cost of ownership

- Ergonomic, eye-catching handheld package
**AUTO-WAVELENGTH RECOGNITION**

The FLS-300 Light Source can transmit with a wavelength-identification digital encrypted protocol, so that any compatible unit—the FPM-300 Power Meter and the FOT-300 Optical Loss Test Set—can automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

**DISTANT REFERENCING**

Signal encrypting can also give the receiving end information on the power to be used as reference, helping ensure efficient referencing, even when the two units are far apart.

**FTTx READY**

EXFO’s FLS-300 allows for the testing of passive optical networks (PONs) at 1310 nm, 1490 nm and 1550 nm, the three wavelengths recommended by the ITU-T (G.983.3) for PONs.

<table>
<thead>
<tr>
<th>SPECIFICATIONS a</th>
<th>23BL</th>
<th>234BL</th>
<th>235BL</th>
<th>12D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central wavelength (nm)</td>
<td>1310 ± 20</td>
<td>1310 ± 20</td>
<td>1310 ± 20</td>
<td>850 ± 25</td>
</tr>
<tr>
<td>1550 ± 20</td>
<td>1550 ± 20</td>
<td>1490 ± 10</td>
<td>1550 ± 20</td>
<td></td>
</tr>
<tr>
<td>Spectral width c (nm)</td>
<td>≤5</td>
<td>≤5</td>
<td>≤5</td>
<td>50/135</td>
</tr>
<tr>
<td>Output power (dBm)</td>
<td>≥1/±1</td>
<td>≥1/±2–3/–5</td>
<td>≥1/–4.5/±3</td>
<td>≥20/–20 (62.5/125 µm)</td>
</tr>
<tr>
<td>Power stability d (dB)</td>
<td>±0.10</td>
<td>±0.10</td>
<td>±0.10</td>
<td>±0.10</td>
</tr>
<tr>
<td>Battery life e (hours)</td>
<td>120</td>
<td>100</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Enables automatic wavelength recognition</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Tone generation (Hz)</td>
<td>270, 1 k, 2 k</td>
<td>270, 1 k, 2 k</td>
<td>270, 1 k, 2 k</td>
<td>270, 1 k, 2 k</td>
</tr>
<tr>
<td>Warranty and recommended calibration interval (years)</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**GENERAL SPECIFICATIONS**

- **Size (H x W x D):** 18.5 cm x 10.0 cm x 5.5 cm (7 ¼ in x 4 in x 2 ⅛ in)
- **Weight:** 0.4 kg (0.9 lb)
- **Temperature:**
  - Operating: –10 °C to 50 °C (14 °F to 122 °F)
  - Storage: –40 °C to 70 °C (42 °F to 158 °F)
- **Relative humidity:** 0 % to 95 % non-condensing

**LASER SAFETY**

CLASS 1 LASER PRODUCT

**STANDARD ACCESSORIES**

User guide, Certificate of Calibration, instrument stickers in six languages, AC adapter, three AA batteries, wrist strap.

**ORDERING INFORMATION**

**FLS-300-XX-XX**

- **Model:**
  - FLS-300-12D = 850/1300 nm LED 62.5/125 µm
  - FLS-300-23BL = 1310/1550 nm laser 9/125 µm a
  - FLS-300-234BL = 1310/1490/1550 nm laser 9/125 µm a
  - FLS-300-235BL = 1310/1490/1550 nm laser 9/125 µm a
  - FLS-300-12D-23BL = 850/1300 nm LED 62.5/125 µm, 1310/1550 nm laser 9/125 µm

- **Connector:**
  - E1-EUI-28 = UPC/DIN 47256
  - E1-EUI-76 = UPC/HMS-10/AG
  - E1-EUI-89 = UPC/FC narrow key
  - E1-EUI-90 = UPC/ST
  - E1-EUI-91 = UPC/SC
  - E1-EUI-95 = UPC/E-2000
  - E1-EUI-98 = UPC/LC
  - EA-EUI-28 = APC/DIN 47256 a
  - EA-EUI-89 = APC/FC narrow key a
  - EA-EUI-91 = APC/SC
  - EA-EUI-95 = APC/E-2000 a
  - EA-EUI-98 = APC/LC

Example: FLS-300-234BL-EI-EUI-89

**Note**

- a. Guaranteed unless otherwise specified.
- b. All specifications valid at 23 °C ± 1 °C, with an FC connector.
- c. ±rms for lasers and —3 dB width for LEDs; typical values for LEDs.
- d. After 15 minutes warmup; expressed as ± half the difference between the maximum and minimum values measured during the period, with an APC connector on the power meter.
- e. Typical autonomy in Auto mode.

**FLS-300 Light Source**

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.

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In case of discrepancy, the web version takes precedence over any printed literature.