# Specifications

Specifications for laser model numbers **IF-RL05-635**[1], **IF-RL08-635**[1], **IF-RL30-635**[1], and **IF-RL30-670**[1] are shown in Table 2.

Table 2. Laser Specifications.

| Parameter | Value | Units |
|---|---|---|
| **Operating** | | |
| **Input voltage** | 10 to 15 | volts |
| **Input current** | 60 to 125 | milliamperes |
| **Temperature** | 0 to 40 | ° C |
| **Optical** | | |
| **Polarization** | Linear | |
| **Wavelength** | 630 - 675[1] | nm[1] |
| **Output power** | See label[2] | mW |
| **Beam diameter** | 3.2 | mm |
| **Beam divergence, max** | 2 | milliradians |
| **Electrical** | | |
| **Analog modulation**[3] | 10 to 500 | kHz |
| **Digital modulation**[3] | 0 to 500 | kHz |
| **Storage** | | |
| **Dimensions** | 5.6 × 7.5 × 22 | cm |
| **Weight** | 400 | grams |
| **Temperature** | -20 to 50 | ° C |

1 The lasing wavelength, in nanometers, is the last three numbers in the part number located on the underside of the laser chassis.

2 Label is located on the bottom side of the laser.

3 Refer to the section on electrical controls in this manual for more information.

# Models and Laser Classifications

Table 3. CDRH Classifications for laser models.

| Laser Model | Classification | Typical power levels |
|---|---|---|
| **IF-RL05-635** | CLASS II | .4 to .6 mW |
| **IF-RL08-635** | CLASS II | .75 to .90 mW |
| **IF-RL30-635** | CLASS IIIa | 2.8 to 3.2 mW |
| **IF-RL30-670** | CLASS IIIa | 2.8 to 3.2 mW |