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# 1.1.2.6 Medium - High Power Fan Cooled Thermal Sensors

## 5W to 1100W

### Features

- High powers and energies, large apertures
- Fan cooled
- Up to 1100W
- Ø65mm aperture

FL600A-BB-65 / FL1100A-BB-65



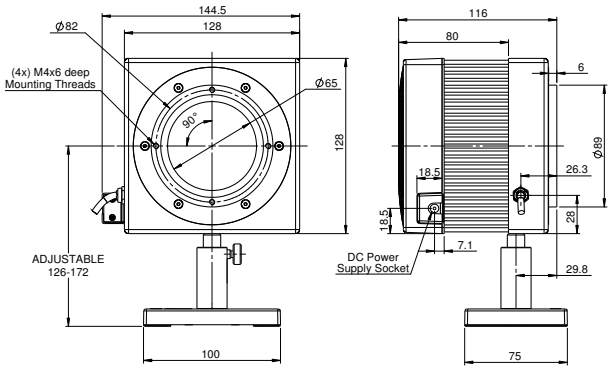
FL600A-LP2-65 / FL1100A-LP2-65



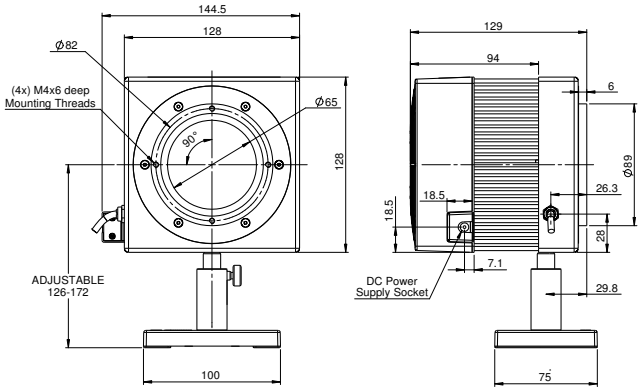
| Model | FL600A-BB-65 | FL600A-LP2-65 | FL1100A-BB-65 | FL1100A-LP2-65 |
|---|---|---|---|---|
| **Use** | **General purpose** | **Long pulses** | **Highest power fan cooled** | **Long pulses** |
| Absorber Type | Broadband | LP2 | Broadband | LP2 |
| Spectral Range µm | 0.19 - 11 | 0.35 – 2.2 | 0.19 - 11 | 0.35 – 2.2 |
| Absorption | ~88% | >94% from 0.35 to 1.1µm | ~88% | >94% from 0.35 to 1.1µm |
| Aperture mm | Ø65mm | Ø65mm | Ø65mm | Ø65mm |
| Power Mode | | | | |
| Power Range | 5W - 600W | 5W - 600W | 5W - 1100W | 5W - 1100W |
| Power Scales | 600W / 60W | 600W / 60W | 1100W / 500W / 50W | 1100W / 800W / 80W |
| Power Noise Level | 200mW | 200mW | 200mW | 200mW |
| Maximum Average Power Density kW/cm² | 12 at 150W 7 at 600W | 33 at 150W 11 at 600W | 8 at 500W<br>5.5 at 1100W | 33 at 150W<br>11 at 600W<br>9 at 1100W |
| Response Time with Meter (0-95%) typ. s [c] | 4 | 4 | 4 | 4 |
| Calibration Uncertainty ±% | 1.9 | 1.9 | 1.9 | 1.9 |
| Power Accuracy ±% | 3 | 3 [b] | 3 | 3 [b] |
| Linearity with Power ±% | 1.5 | 1.5 | 1.5 | 1.5 |
| Energy Mode [a] | | | | |
| Energy Range | 600mJ - 600J | 600mJ - 600J | 600mJ - 600J | 600mJ - 1000J |
| Energy Scales | 600J / 60J / 6J | 600J / 60J / 6J | 600J / 60J / 6J | 1000J / 600J / 60J / 6J |
| Minimum Energy mJ | 600 | 600 | 600 | 600 |
| Maximum Energy Density J/cm² | | | | |
| <100ns | 0.3 | 0.1 | 0.3 | 0.1 |
| 1µs | 0.4 | 0.9 | 0.4 | 0.9 |
| 0.5ms | 4 | 50 | 4 | 50 |
| 2ms | 10 | 130 | 10 | 130 |
| 10ms | 30 | 400 | 30 | 400 |
| Cooling | fan | fan | fan | fan |
| Fiber Adapters | Consult Ophir representative | Consult Ophir representative | Consult Ophir representative | Consult Ophir representative |
| Weight kg | 2.4 | 2.4 | 2.4 | 2.6 |
| Compliance | CE, UKCA, China RoHS | CE, UKCA, China RoHS | CE, UKCA, China RoHS | CE, UKCA, China RoHS |
| Version | | | | |
| **Part Number:** Standard Sensor | **7Z02762** | **7Z02779** | **7Z02761** | **7Z02784** |
| Sensor with different cable lengths | | | **7Z02761A (3m cable), 7Z02761B (5m cable)** | |

Notes: (a) It is recommended to measure energy with the fan off.
Notes: (b) Above 1.1µm there is an additional calibration uncertainty of up to 2%.
Notes: (c) Time to reach 98% of final reading is ~30s. 99% within ~2minutes. This time may be longer at low powers less than 20W.

**FL600A-BB-65 / FL600A-LP2-65**




**FL1100A-BB-65 / FL1100A-LP2-65**



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