

1.1.2.6 Medium-High Power Fan Cooled Thermal Sensors

500W to 1100W

FL600A-BB-65/ FL1100A-BB-65

FL600A-LP2-65

Features

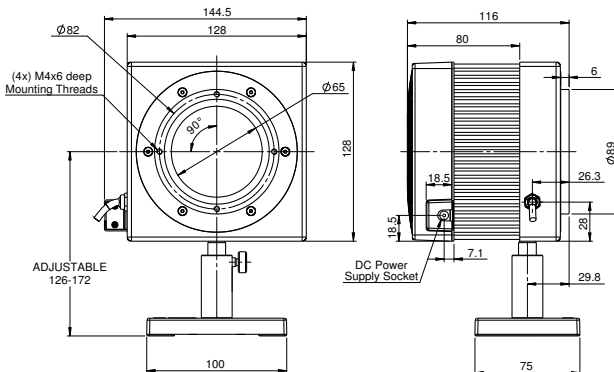
- High powers and energies, large apertures
- Fan cooled
- Up to 1100W
- Ø65mm aperture



Model	FL600A-BB-65	FL600A-LP2-65	FL1100A-BB-65
Use	General purpose	Long pulses	Highest power fan cooled
Absorber Type	Broadband	LP2	Broadband
Spectral Range μm	0.19 - 20	0.35 - 2.2	0.19 - 20
Absorption	~88%	>94% from 0.35 to 1.1 μm	~88%
Aperture mm	Ø65mm	Ø65mm	Ø65mm
Power Mode			
Power Range ^(a)	500mW - 600W	500mW - 600W	600mW - 1100W
Power Scales	600W / 60W	600W / 60W	1100W / 500W / 50W
Power Noise Level ^(a)	120mW	120mW	120mW
Maximum Average Power Density kW/cm ²	12 at 150W 7 at 600W	33 at 150W 11 at 600W	8 at 500W 5.5 at 1100W
Response Time with Meter (0-95%) typ. s	4	4	4
Power Accuracy +/-%	3	3 ^(b)	3
Linearity with Power +/-%	1.5	1.5	1.5
Energy Mode			
Energy Range	600mJ - 600J	600mJ - 600J	600mJ - 600J
Energy Scales	600J / 60J / 6J	600J / 60J / 6J	600J / 60J / 6J
Minimum Energy mJ ^(a)	600	600	600
Maximum Energy Density J/cm ²			
<100ns	0.3	0.1	0.3
1 μs	0.4	0.9	0.4
0.5ms	4	50	4
2ms	10	130	10
10ms	30	400	30
Cooling	fan	fan	fan
Fiber Adapters	Consult Ophir representative	Consult Ophir representative	Consult Ophir representative
Weight kg	2.4	2.4	2.4
Version			
Part Number	7Z02762	7Z02779	7Z02761

Notes: (a) For lower powers up to 50W it is recommended to work with the fan off and then the noise level is ~5 times lower. It is also recommended to measure energy with the fan off.
Notes: (b) Above 1.1 μm there is an additional calibration uncertainty of up to 2%.

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FL1100A-BB-65

