

Special Sensors – Integrating Spheres

50mW to 100W

Features

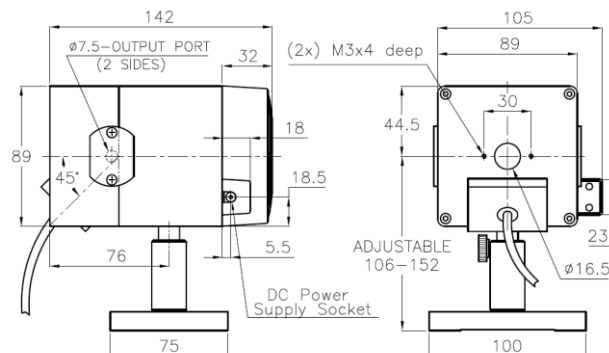
- Integrating sphere for divergent beams
- Fan cooled version
- 100W type
- ϕ 16mm version
- For fiber or free space input

F100A-IS



Model	F100A-IS
Use	Divergent beams to 100W
Absorber Type	Integrating sphere with thermal sensor
Spectral Range μm	0.35 – 1.3
Aperture mm	ϕ 16mm
Maximum Beam Divergence	± 45 degrees
Sensitivity to beam size and angle	$\pm 2\%$
Power Mode	
Power Range	50mW - 100W
Power Scales	100W / 20W / 2W
Power Noise Level	5mW
Maximum Average Power Density KW/cm^2	0.2 on integrating sphere surface
Response Time with Display (0-95%) typ. s	1
Power Accuracy +/-%	5 ^(a)
Linearity with Power +/-%	1
Energy Mode	
Energy Range	30mJ - 100J
Energy Scales	100J / 30J / 3J
Minimum Energy mJ	30
Maximum Energy	100J
Maximum Energy Density J/cm^2 ^(b)	
<100ns	0.5
0.5ms	6
2ms	12
10ms	25
Cooling	fan
Fiber Adapters Available (see page 42)	SMA, FC, ST
Weight Kg	1.5
Version	V1
Part number	7Z02679
Notes:	Note (a): At wavelengths 532nm, 800nm and 1064nm Note (b): On integrating sphere surface

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