FL400A-LP1-50

PN 7Z02749S

300mW to 500W

Features

- High powers and energies, large apertures
- Fan cooled
- Up to 500W
- Ø50mm aperture

FL400A-LP1-50

Model	FL400A-LP1-50
Use	High power densities and long pulses
Absorber Type	LP1
Spectral Range µm	0.35 – 2.2, 10.6
Aperture mm	Ø50mm
Power Mode	
Power Range [a]	300mW - 500W
Maximum Intermittent Power	500W for 1 min, 400W continuous
Power Scales	500W / 50W
Power Noise Level [a]	40mW
Maximum Average Power Density kW/cm^2	19 at 400W 38 at 150W
Response Time with Meter (0-95%) typ. s	5
Power Accuracy +/-%	3 [b]
Linearity with Power +/-%	1.5
Energy Mode	
Energy Range	75mJ – 600J
Energy Scales	600J / 60J / 6J
Minimum Energy mJ [a]	75
Maximum Energy Density J/cm^2	
<100ns	0.05
1µs	0.3
0.5ms	20
2ms	50
10ms	200
Cooling	fan
Fiber Adapters Available (see page 77)	ST, FC, SMA, SC
Weight kg	0.9
Version	
Part number	**7Z02749S**
Notes: (a)	For lower powers up to 50W it is recommended to work with the fan off and then the noise level is ~3 times lower. It is also recommended to measure energy with the fan off.
Notes: (b)	LP1 sensors have relatively large spectral variation in absorption and have a calibrated spectral curve at all wavelengths in their spectral range to the above specified accuracy. This LP1 sensor is calibrated for 1.06µm and 10.6µm. Nova, Orion and LaserStar meters do not support the spectral curve feature and when used with those meters, accuracy will be ±3% for 1.06µm and 10.6µm, and ±6% for other wavelengths in the spectral range 600 – 1100nm.

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