

## L300W-LP1-50 PN 7Z02748S

### 1W to 300W

#### Features

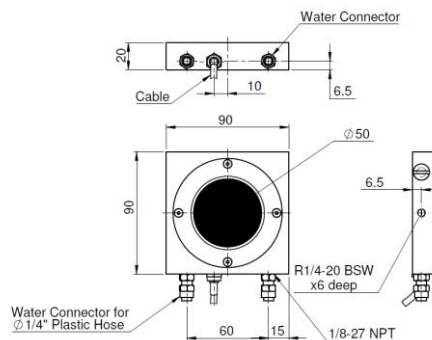
- High powers
- Water cooled
- Up to 300W
- Ø50mm aperture

L300W-LP1-50



Model	L300W-LP1-50
Use	High power densities and long pulses
Absorber Type	LP1
Spectral Range $\mu\text{m}$	0.35-2.2, 10.6
Aperture mm	Ø50mm
Power Mode	
Power Range	1W - 300W
Power Scales	300W / 30W
Power Noise Level	50mW
Maximum Average Power Density $\text{kW}/\text{cm}^2$	23 at 300W 38 at 150W
Response Time with Meter (0-95%) typ. s	2.5
Power Accuracy +/-%	3 <sup>(a)</sup>
Linearity with Power +/-%	2
Energy Mode	
Energy Range	200mJ - 300J
Energy Scales	300J / 30J / 3J
Minimum Energy mJ	200
Maximum Energy Density $\text{J}/\text{cm}^2$	
<100ns	0.05
1 $\mu\text{s}$	0.3
0.5ms	20
2ms	50
10ms	200
Cooling	water
Minimum Water Flow Rate at Full Power	3 liter/min <sup>(b)</sup>
Accessories for High Power Sensors	See pages 67, 68 & 69
Weight kg	0.6
Version	
<b>Part number</b>	<b>7Z02748S</b>
Notes: (a)	Calibrated for 1.064 $\mu\text{m}$ and 10.6 $\mu\text{m}$ . LP1 sensors have relatively large spectral range in absorption and have a calibrated spectral curve at all wavelengths in their spectral range to the above specified accuracy. Nova, Orion and LaserStar meters do not support this feature and when used with those meters, accuracy will be $\pm 3\%$ for 1.06 $\mu\text{m}$ and 10.6 $\mu\text{m}$ , and $\pm 6\%$ for other wavelengths in the spectral range 600 – 1100nm.
Notes: (b)	Water temperature range 18-30°C. Water temperature rate of change <1°C/min. Pressure drop across sensor 0.03MPa.

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