

CO₂ Lasers

Plasma, JSC offers a series of RF-excited CO₂ waveguide lasers ranging in power from 1, 5 to 50 W singlemode with air and water cooling. And slotted RF-excited CO₂ laser LCDP-200 (power 200 W).

| Model | Wavelength, μm , within | Average power, W | Spectral structure | Polarization | Relative power instability (after 30 min), % | Divergence, mrad, not more | Laser beam diameter, mm, not more | Power consumption, W, not more | Average life, h | Dimensions laser head / power supply, mm, not more | Mass laser head / power supply, kg, not more |
|-------------|------------------------------------|------------------|-----------------------|--------------|--|----------------------------|-----------------------------------|--------------------------------|-----------------|--|--|
| LCD-3A | 10.57-10.63 | 3.0 | 90% TEM ₀₀ | 100:1 | ±8 | 10 | 2.0 | 300 | 2000 | 280x70x130/335x120x160 | 2.2/1.5 |
| LCD-10A | 10.57-10.63 | 10.0 | 90% TEM ₀₀ | 100:1 | ±8 | 8 | 2.2 | 400 | 2000 | 400x80x130/335x120x160 | 3.5/4.0 |
| LCD-10WG | 9.2-10.8 | 10.0 | 90% TEM ₀₀ | 100:1 | ±5 | 10 | 2.0 | 550 | 2000 | 505x60x100/335x160x65 | 4.5/3.5 |
| LCD-10AG | 9.2-10.8 | 10.0 | 90% TEM ₀₀ | 100:1 | ±5 | 10 | 2.0 | 550 | 2000 | 550x110x145/335x120x160 | 6.0/4.0 |
| LCD-10WG-2T | 9.2-10.8 | 2.0-8.0 | 90% TEM ₀₀ | 100:1 | ±5 | 10 | 2.0 | 600 | 2000 | 520x60x100/335x160x65 | 5.0/3.5 |
| LCD-5WGT | 9.2-10.7 | 5 | 90% TEM ₀₀ | 100:1 | ±7 | 10 | 2.0 | 550 | 2000 | 700x130x110/335x160x65 | 6.0/4.0 |
| LCD-5AGT | 9.2-10.7 | 5 | 90% TEM ₀₀ | 100:1 | ±7 | 10 | 2.0 | 550 | 2000 | 700x130x110/335x120x160 | 6.0/5.0 |
| LCD-15A | 10.57-10.63 | 15.0 | 90% TEM ₀₀ | 100:1 | ±5 | 10 | 2.0 | 550 | 2000 | 550x110x145/335x120x160 | 6.0/3.5 |
| LCD-15 W | 10.57-10.63 | 15.0 | 90% TEM ₀₀ | 100:1 | ±5 | 10 | 2.0 | 550 | 2000 | 465x60x100/335x160x65 | 6.0/3.5 |
| LCD-25W | 10.57-10.63 | 30.0 | 90% TEM ₀₀ | 100:1 | ±3 | 8 | 2.2 | 750 | 2000 | 650x160x110/335x160x65 | 6.0/3.5 |
| LCD-15WG | 9.2-10.8 | 15.0 | 90% TEM ₀₀ | 100:1 | ±5 | 8 | 2.2 | 750 | 2000 | 680x105x100/335x160x65 | 6.0/3.5 |
| LCD-50W | 10.57-10.63 | 50.0 | 90% TEM ₀₀ | 100:1 | ±3 | 8 | 2.2 | 750 | 2000 | 780x120x115/335x240x65 | 6.0/4.0 |
| LCDP-200 | 9-11 | 200 | Close to Gaussian | 50:1 | ±5 | 8 | 8 | 6000 | 2000 | 720x140x110/520x425x600 | 20/45 |

Notice: G – radiation power at a fixed wavelength; A – forced air cooling; W – forced water cooling; T – retune to the wavelength.

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