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Lasers

Product Information | Tutorial | Application Notes

Multiline | Air-Cooled Ion | Diode-Pumped Solid-State | HeCd | HeNe

Semiconductor Diode | Single-Frequency | Diode Laser Drivers | Laser Accessories

Utility Diode Laser Driver



- Up to 200 mA of drive current
- Current- and power-stabilized modes
- Analog modulation to 100 kHz
- CE compliant

The 06 DLD 201 utility diode laser driver is a low-noise, stable current source with performance equivalent to more expensive units. Diode lasers can be operated in current- and power-stabilized modes and modulated to 100 kHz. Diode laser operating current as well as photocurrent level can be preset prior to laser turn-on for maximum user convenience.

CURRENT AND POWER STABILIZATION:

In the current-stabilized mode, laser operating current can be set from 1 mA to 200 mA, with 100 µA resolution. The power-stabilized mode features two gain settings: photo-low and photo-high. For most visible and near-infrared diode lasers, the photo-low setting, with its input current range of from 1 µA to 2 mA and 1 µA display and adjustment resolution, offers extremely accurate output power control. The photo-high gain setting accepts photocurrents from 10 µA to 10 mA with 10 µA display/adjustment resolution.

ANALOG MODULATION:

Analog modulation of the diode laser drive current or the output power is obtained by applying an external signal to the modulation input BNC connector. In the current-stabilized mode, the modulation bandwidth is always greater than 100 kHz. The power-modulation bandwidth depends on the type of diode laser being used, but it is typically 100 kHz.

CURRENT LIMIT:

For diode protection, the 06 DLD 201 provides an adjustable current limit that can be set anywhere over the unit's 200 mA current sourcing range. Once set, the current cannot surpass this level.

Specifications

Performance Parameters

	Constant-Current Mode	Constant-Power Mode
Current Range:	1–200 mA	0–2 mA, photo-low 0–10 mA, photo-high
Resolution:	100 µA	1 µA, photo-low 10 µA, photo-high
Temperature Coefficient:	<50 ppm/°C	<50 ppm/°C

Drift:	<20 ppm over 1 hour @ 25°C	<20 ppm over 1 hour @ 25°C
Analog Modulation:	dc–100 kHz	dc–100 kHz
Noise:	<2 mA rms	
Voltage Compliance:	7 Vdc	7 Vdc

*Modulation bandwidth, noise, and temperature coefficient are dependent upon the diode laser type used in constant power. Values stated are for Sharp Model LT026.

Other Parameters

Display Accuracy:
±0.2 mA operating current
±2 µA photocurrent

Current Limit Range: 0–200 mA

Accuracy: ±1% of full scale

Resolution: 0.1 mA Overshoot: <5%

Dimensions (W x H x D):
132 x 66 x 183 mm (5 x 2.5 x 7 in.)

Weight: 1.6 kg (3.5 lb)

Power Requirements:
115 Vac +10%, –20%, 230 Vac ± 10%, 50–60 Hz

Operating Temperature Range:
5°C to 40°C

Storage Temperature Range:
–40°C to +70°C

Safety: Complies with CDRH US21 and CFR 1040.10 CE Compliant

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