

high power laser diode current sources



LDX-36000 High Power Laser Diode Current Source

- Output current up to 220A for driving high power laser diodes
- CW and QCW operating modes
- High set point accuracy and 4-wire forward voltage measurements for precision LIV testing
- Multiple laser diode protection features
- Event and pulse trigger input and output with programmable delays
- Temperature monitor with thermistor input
- Power monitor input for external photodiode measurements
- GPIB computer interface

	LDX-36010-12	LDX-36010-35	LDX-36010-70	LDX-36018-35	LDX-36018-70
Output Current CW	10A	10A	10A	18A	18A
Output Current QCW	20A	20A	20A	40A	40A
Set Point Accuracy	± 0.1%	± 0.1%	± 0.1%	± 0.1%	± 0.1%
Set Point Resolution	10mA	10mA	10mA	10mA	10mA
Noise and Ripple	< 5mA rms	< 10mA rms	< 10mA rms	< 10mA rms	< 10mA rms
Short Term Stability	± 100 ppm	± 100 ppm	± 100 ppm	± 100 ppm	± 100 ppm
Compliance voltage	12V	35V	70V	35V	70V
Laser Diode Protection					
Pulse Width	40μs to 2s	40μs to 2s	40μs to 2s	40μs to 2s	40μs to 2s
Rise / Fall Time	< 10μs	< 10μs	< 20μs	< 10μs	< 20μs
Overshoot	< 2%	< 2%	< 2%	< 2%	< 2%
Pulse Frequency	0.1 Hz to 1 kHz	0.1 Hz to 1 kHz	0.1 Hz to 1 kHz	0.1 Hz to 1 kHz	0.1 Hz to 1 kHz
Duty Cycle	0.5 to 90%	0.5 to 90%	0.5 to 90%	0.5 to 90%	0.5 to 90%
Temperature Monitor	Yes	Yes	Yes	Yes	Yes
PD measurement	Yes	Yes	Yes	Yes	Yes
Computer Interface	GPIB	GPIB	GPIB	GPIB	GPIB

- Intermittent contact protection
- Adjustable forward voltage limit
- On / off shorting semiconductor switch
- Slow start circuit
- Floating output
- Independent adjustable current limit
- Power line surge and EFT transient protection



光技術をサポートする

株式会社オプトサイエンス

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LDX-36125-24 125A CW / 220A QCW
High Power Laser Diode Current Source



LDX-32420 10A / 20A Precision
High Power Laser Diode Current Source



LDX-36050-12 50A CW / 100A QCW
High Power Laser Diode Current Source

	LDX-32420	LDX-36025-12	LDX-36040-30	製造中止 LDX-36040-70	LDX-36050-12
Output Current CW	10A / 20A	25A	40A	40A	50A
Output Current QCW	-----	50A	80A	80A	100A
Set Point Accuracy	± 0.1%	± 0.1%	± 0.1%	± 0.1%	± 0.1%
Set Point Resolution	1mA	10mA	10mA	10mA	10mA
Noise and Ripple	< 5mA	< 10mA rms	< 10mA rms	< 10mA rms	< 20mA rms
Short Term Stability	± 50ppm	± 100ppm	± 100ppm	± 100ppm	± 100ppm
Compliance voltage	4V	12V	30V	70V	12V
Laser Diode Protection		<ul style="list-style-type: none"> - Intermittent contact protection - Adjustable forward voltage limit - On / off shorting semiconductor switch - Slow start circuit - Floating output - Independent adjustable current limit - Power line surge and EFT transient protection 			
Pulse Width	-----	40µs to 2s	40µs to 2s	40µs to 2s	40µs to 2s
Rise / Fall Time	-----	< 10µs	< 20µs	< 20µs	< 20µs
Overshoot	-----	< 2%	< 2%	< 2%	< 2%
Pulse Frequency	-----	0.1 Hz to 1 kHz	0.1 Hz to 1 kHz	0.1 Hz to 1 kHz	0.1 Hz to 1 kHz
Duty Cycle	-----	0.5 to 90%	0.5 to 90%	0.5 to 90%	0.5 to 90%
Temperature Monitor	No	Yes	Yes	Yes	Yes
PD Measurement	Yes	Yes	Yes	Yes	Yes
Computer Interface	USB and GPIB	GPIB	GPIB	GPIB	GPIB

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- Precision current control with 1mA set point resolution
- Constant current and constant power operating modes
- Precision laser forward voltage measurement
- Proven high power laser protection features including independent current limits, adjustable compliance voltage and intermittent contact protection
- Laser current modulation capability
- GPIB and USB computer interface

LDX-32420 10A / 20A Precision High Power Laser Diode Current Source*

	LDX-36070-30	LDX-36085-12	LDX-36125-12	LDX-36125-24
Output Current CW	70A	85A	125A	125A
Output Current QCW	160A	170A	220A	220A
Set Point Accuracy	± 0.1%	± 0.1%	± 0.1%	± 0.1%
Set Point Resolution	10mA	10mA	10mA	10mA
Noise and Ripple	< 40mA rms	< 40mA rms	< 60mA rms	< 60mA rms
Short Term Stability	± 100ppm	± 100ppm	± 100ppm	± 100ppm
Compliance voltage	30V	12V	12V	24V
Laser Diode Protection	<ul style="list-style-type: none"> - Intermittent contact protection - Adjustable forward voltage limit - On / off shorting semiconductor switch - Slow start circuit - Floating output - Independent adjustable current limit - Power line surge and EFT transient protection 			
Pulse Width	40µs to 2s	40µs to 2s	40µs to 2s	40µs to 2s
Rise / Fall Time	< 20µs	< 20µs	< 20µs	< 20µs
Overshoot	< 2%	< 2%	< 2%	< 2%
Pulse Frequency	0.1 Hz to 1 kHz	0.1 Hz to 1 kHz	0.1 Hz to 1 kHz	0.1 Hz to 1 kHz
Duty Cycle	0.5 to 90%	0.5 to 90%	0.5 to 90%	0.5 to 90%
Temperature Monitor	Yes	Yes	Yes	Yes
PD measurement	Yes	Yes	Yes	Yes
Computer Interface	GPIB	GPIB	GPIB	GPIB

* See page 7 for additional specifications