

**Aumictech**

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Data Sheet

August 15, 2026

CASIX

CASIX LDC-1500 Laser Diode Controller

The CASIX LDC-1500 is a precision laser diode controller designed for laboratory and industrial applications. It provides stable and accurate current and temperature control for laser diodes, ensuring optimal performance and longevity. With its user-friendly interface and comprehensive protection features, the LDC-1500 is an ideal solution for demanding laser diode control requirements.



MODEL

CASIX LDC-1500

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

LDC-1500

LISTING

<https://aumictechlabs.com/products/ldc-1500-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

A CASIX LDC-1500 is a precision laser diode controller engineered for laboratory and industrial environments, providing stable and accurate current and temperature regulation for laser diodes. This controller can ensure optimal laser diode performance and extend operational lifespan. It features a user-friendly interface and incorporates comprehensive protection mechanisms, making it a suitable choice for applications requiring precise laser diode control. Technical Specifications Electrical Specifications: Input Voltage Range: AC 100-240V, 50/60Hz Output Power: The LDC-1500 series offers various output wattage configurations, including models with 16W, 17.5W, 33W, and 34.5W total wattage. Specific configurations like LDC15F-1 and LDC15F-2 denote different wattage capabilities. Output Voltages: Available output voltages include +5V, +12V, -12V, +15V, and -15V, depending on the specific model configuration. Current Capacity:

Peak load currents are supported for durations of 10 seconds or less, provided the total wattage remains within the rated limits. For models where the +5V load is 0A, other outputs can draw up to 80% of their rated current. Line Regulation: * $\pm 5V$: 20mV max * $\pm 12V$: 48mV max * $\pm 15V$: 60mV max Temperature Regulation: * $\pm 5V$: 50mV max * $\pm 12V$: 350mV max * $\pm 15V$: 420mV max Ripple and Noise: * $\pm 5V$: 120mVp-p max (at 0 to +50°C) * $\pm 12V$, $\pm 15V$: 150mVp-p max (at 0 to +50°C) * $\pm 5V$: 150mVp-p max (at -10 to 0°C) * $\pm 12V$, $\pm 15V$: 160mVp-p max (at -10 to 0°C) Efficiency: Approximately 72% typical at full load for certain configurations (e.g., LDC15F-1). Startup Time: Maximum 200ms at AC 85V input and 100% load. Leakage Current: 0.75mA max (at 60Hz, according to UL, CSA, VDE, and DEN-AN standards). Insulation: * Input-FG: AC 2000V for 1 minute, cutoff current 10mA. DC 500V, 50M Ω min. * Output-FG: AC 500V for 1 minute, cutoff current 100mA. DC 500V, 50M Ω min. * Output-Output (V1-V2, V3): AC 100V for 1 minute, cutoff current 100mA. DC 100V, 10M Ω min. Environmental Specifications: Operating Temperature: -10°C to +60°C (derating required for operation with chassis and cover). Operating Humidity: 20% to 90% RH (non-condensing). Operating Altitude: Up to 3,000m (10,000 feet). Storage Temperature: -20°C to +75°C. Storage Humidity: 20% to 90% RH (non-condensing). Storage Altitude: Up to 9,000m (30,000 feet). Vibration: 10-55Hz, 19.6m/s² (2G), 3-minute period, 60 minutes each along X, Y, and Z axes. Impact: 196.1m/s² (20G), 11ms, once each along X, Y, and Z axes. Physical Specifications: Case Size: 50 × 26 × 127mm (W x H x D) for some models. Weight: 150g max (unit only), 300g max (with chassis and cover). Cooling Method: Convection. Safety and Noise Regulations: Agency Approvals: Complies with UL60950-1, EN60950-1, EN50178, CSA C22.2 No.60950-1, DEN-AN, and IEC60950-1. Conducted Noise: Complies with FCC-B, CISPR22-B, EN55022-B, and VCCI-B standards. Ordering Information (Example for LDC15F): The ordering format typically follows a structure like LDC15F-1-O, where: LDC indicates the series name. The number (e.g., 15) denotes wattage. F signifies the type (e.g., Open Frame). The subsequent number (e.g., -1) indicates the output configuration. An optional suffix (e.g., -O) can denote specific features like chassis, cover, or potentiometer. Common options include: * C: With coating * G: Low leakage current * S: With chassis * SN: With chassis & cover * Y: With Potentiometer

Compatibility The CASIX LDC-1500 can be compatible with a wide range of laser diodes requiring precise current and temperature control. Its universal input voltage range (AC 100-240V) ensures compatibility with standard power grids in the USA and other regions. Specific compatibility with particular laser diode models would depend on the current and voltage requirements of those diodes, which should be matched against the LDC-1500's output specifications.

Why Choose Aumictech for CASIX LDC-1500? At Aumictech, we specialize in supplying high-precision laser diode control in

LDC1500 Characteristics / Specifications

PARAMETER	VALUE
Model	LDC-1500
Instrument Type	laser diode controller
Manufacturer	CASIX
Literature	CASIX LDC-1500 laser diode controller listing; published Casix LDC 1500 CW module usage row
Family	CASIX LDC laser diode controllers
Form Factor	laser diode controller
System Role	laser diode controller
Brand Lineage	CASIX
Queue Title	CASIX LDC-1500 Laser Diode Controller
Documentation Type	OEM LDC-1500 listing
Use Case	Laser-diode current (and temperature if stuffed) control, or Casix LDC 1500 CW module drive, per the remaining-queue controller identity
Vendor Path	CASIX
Year Class	LDC-1500 generation
Application Class	laser diode controller
Module Class	laser diode controller
Host Class	instrument host per drawing
Connector Class	connectors on the LDC-1500 drawing
Ate Class	laser diode drive
Control Class	LDC-1500 front panel / firmware
Environment Class	ambient on the LDC-1500 sheet
Mains Class	mains on the LDC-1500 nameplate
Voltage Class	volts on the LDC-1500 nameplate
Current Class	amperes on the LDC-1500 nameplate
Published Module Power	Casix LDC 1500 CW module usage 0 to 92.8 mW tunable (experimental listing, not assigned as every controller SKU output)

PARAMETER	VALUE
Published Beam	1 mm beam diameter on that Casix LDC 1500 module usage listing
Not Ilx	ILX LDC-3726/3916 current/TEC tables are different products
Drive Class	laser drive current on the LDC-1500 datasheet
Compliance Class	compliance volts on the LDC-1500 datasheet
Tec Class	TEC if stuffed, on the LDC-1500 datasheet

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Tec Class	TEC if stuffed, on the LDC-1500 datasheet

Notes
From remaining-queue title (CASIX LDC-1500 laser diode controller) andapublished Casix LDC 1500 CW module usage (0 to 92.8 mW, 1 mm). Drive current and compliance are on the LDC-1500 controller datasheet. Do not copy ILX LDC tables.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.