

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ELECTROCRAFT

ElectroCraft DC-45L Brush-Type Servo Amplifier

The ElectroCraft DC-45L is a brush-type amplifier designed for DC motor control applications. It offers reliable performance and precise control for a variety of industrial and automation systems. This amplifier is ideal for users needing a dependable solution for demanding motor control requirements.



MODEL

ElectroCraft DC-45L

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DC-45L

LISTING

<https://aumictechlabs.com/products/dc-45l-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ElectroCraft DC-45L is a brush-type amplifier designed for driving brush-type DC motors. It is part of ElectroCraft's DC Mini Series and offers reliable performance and precise control suitable for industrial automation systems and demanding motor control applications. This amplifier can interface with digital controllers or function as a standalone unit. Technical Specifications * Motor Type: Brush-Type DC Motors Input Voltage: 25-130 VAC Switching Frequency: 33 kHz Output Current: 8 Amps (continuous), 16 Amps (peak) Power Supply: Operates directly from 120 VAC power Protection: Fully protected against overvoltage, overcurrent, overheating, and short circuits across motor, ground, and power leads Regenerative Operation: Four-quadrant regenerative operation Control Interfaces: Can interface with digital controllers or operate as standalone amplifiers Status Indicator: Single red/green LED for operating status Potentiometer Adjustments: * Loop Gain * Current Limit * VCS Gain * IR Compensation (Test/Offset) Test/Offset Potentiometer: Can be used as an on-board input signal for test purposes Electrical Characteristics * Input

Power: Designed to operate directly from 120 VAC mains power Output Characteristics: Capable of delivering 8 Amps continuous and 16 Amps peak output current Protection Features: Integrated protection circuits prevent damage from overvoltage, overcurrent, overheating, and short circuits IR Compensation: Adjustable for precise motor control and performance tuning Interfaces * Digital Controller Interface: Compatible with digital control systems for integrated automation Standalone Operation: Can be configured and operated as a standalone amplifier without external controllers On-Board Signal Generation: Test/Offset potentiometer allows for on-board signal generation for testing and calibration Physical Characteristics * Mounting: Surface-mount board technology.

Note: Some units may not include a built-in heat sink; output current may need to be derated if a heat sink and cooling fan are not used. Compatibility * Motor Compatibility: Specifically designed for driving brush-type DC motors Control Systems: Integrates with digital controllers for enhanced automation capabilities Features * Compact Design: Small size and low cost make it suitable for various applications Ease of Use: Features DIP switches for configuring different modes of operation solid Protection: Comprehensive protection mechanisms ensure operational reliability and longevity Adjustable Parameters: On-board potentiometers allow for fine-tuning of critical motor control parameters

Why Choose Aumictech for the ElectroCraft DC-45L Brush-Type Amplifier? At Aumictech, we specialize in supplying high-end motion control equipment. Whether you need reliable DC motor control, precise automation system integration, or solid solutions for demanding applications, our team ensures the ElectroCraft DC-45L Brush-Type Amplifier delivers maximum performance for your application.

DC45L Characteristics / Specifications

PARAMETER	VALUE
Model	DC-45L
Instrument Type	brush-type servo amplifier
Manufacturer	ElectroCraft
Form Factor	servo amplifier module
Application Class	DC brush motor servo
System Role	servo amplifier
Use Case	positioning and automation
Documentation Type	OEM ElectroCraft DC-45L listing
Motor Class	DC brush
Loop Class	current and velocity
Supply Class	DC-45L bus voltage on the sheet
Current Class	DC-45L continuous/peak current on the sheet
Bandwidth Class	current loop bandwidth on the sheet
Protection Class	overcurrent and overtemperature on the sheet
Command Class	analog command input
Feedback Class	tachometer/encoder class on the sheet
Brand Lineage	ElectroCraft
Literature	ElectroCraft DC-45L brush-type servo amplifier literature
Mounting Class	panel/heatsink
Cooling Class	DC-45L cooling on the sheet
Operating Temperature Class	DC-45L ambient on the sheet
Connector Class	motor and command terminals
Enable Class	inhibit/enable input
Fault Class	fault output on the sheet
Bandwidth	Class: current loop bandwidth on the sheet

PARAMETER	VALUE
Operating temperature	Class: DC-45L ambient on the sheet

DC45L Specifications

PARAMETER	VALUE
Key Features	Brush-type servo amplifier
Current and velocity loops	ElectroCraft DC-45L
Technical Specifications	Model: DC-45L

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: DC-45L ambient on the sheet
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Operating Temperature Class	DC-45L ambient on the sheet
Connector Class	motor and command terminals
Enable Class	inhibit/enable input
Fault Class	fault output on the sheet Notes From ElectroCraft DC-45L brush-type servo amplifier listings. Bus voltage, continuous/peak amps, and loop bandwidth are on the DC-45L sheet; do not invent ampere ratings.

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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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

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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.