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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI LQD-422

Key Features - Two independent 0 to 40 V channels at 1.0 A (30 C class) - Digital LED displays (LQD vs analog LPD) - CV/CC automatic crossover - Line/load voltage regulation 0.01% plus 1.0 mV class LPD-400A/LQD - Remote program 200 ohm/V Technical Specifications Model: LQD-422 Manufacturer: Lambda Electronics (Veeco/Lambda; TDK-Lambda successor) Instrument Type: Dual Output Linear DC Power Supply Series: LQD Alias: LQD-422; LQD422; Lambda LQD-422 Channel Count: 2 independent regulated outputs Voltage Range Each: 0 to 40 Vdc Current At 30 C: 1.0 A per channel Family LQD421: 2 channels, 0 to 20 V at 1.7 A Family LQD423: 2 channels, 0 to 60 V at 0.7 A Family LQD424: 2 channels, 0 to 120 V at 0.38 A Family LQD425: 2 channels, 0 to 250 V at 0.13 A Voltage Regulation Line: 0.01% plus 1.



MODEL

**Lambda / TDK
LQD-422**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

LQD-422

LISTING

<https://aumictechlabs.com/products/lqd-422-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lambda/TDK EMI LQD-422 is a dual-channel regulated DC power supply engineered for laboratory, test, and industrial bench applications. Each channel delivers 0–40 VDC at 0–1.0 A (40 W per channel, 80 W total), with independent voltage and current controls on the front panel. The supply operates from 105–132 VAC, 47–440 Hz input, featuring excellent line regulation of 0.005% $V_o + 0.5$ mV and load regulation of 0.005% $V_o + 10$ μ V. A built-in digital panel meter with selector switch monitors voltage or current output in real time. Technical Specifications Output: Dual

channels, 0–40 VDC, 0–1.0 A per channel (80 W total) Input: 105–132 VAC, 47–440 Hz (derate output current 10% for 47–53 Hz) Line Regulation: 0.005% $V_o + 0.5$ mV Load Regulation: 0.005% $V_o + 10$ μ V Temperature Coefficient: <0.015% per °C Dimensions: 5-3/16" H $\times$ 8-3/8" W $\times$ 10-5/8" D Weight: 12 lbs net; 15 lbs shipping Cooling: Convection cooled (fanless) Key Features Multiturn voltage adjustment (1% to V_o max) with remote programming capability for full 0– V_o max range Single-turn current limiting adjustment (zero to maximum) Constant voltage/constant current automatic crossover operation Remote sensing provision to compensate output lead voltage drops Series/parallel operation with auto tracking to common reference Adjustable current limiting and thermal protection via self-resetting thermostat Primary and secondary fuse protection Five-way binding posts per channel; rear barrier strip input connections Five-year Lambda guarantee Typical Applications Laboratory power source for component testing, circuit development, and bench troubleshooting. Flexible dual-channel architecture supports independent or linked supply configurations. Compatibility & Integration 19" rack mounting via optional adapters (LRA-1, LRA-2). External overvoltage protectors (LHOV-4, LHOV-5, LHOV-6) available.

Features & description

From manufacturer datasheet

Features

- Two independent 0 to 40 V channels at 1.0 A (30 C class)

LQD422 Characteristics / Specifications

PARAMETER	VALUE
Model	LQD-422
Manufacturer	Lambda Electronics (Veeco/Lambda; TDK-Lambda successor)
Instrument Type	Dual Output Linear DC Power Supply
Series	LQD
Alias	LQD-422; LQD422; Lambda LQD-422
Channel Count	2 independent regulated outputs
Voltage Range Each	0 to 40 Vdc
Current At 30 C	1.0 A per channel
Family LQD4	2 channels, 0 to 120 V at 0.38 A
Voltage Regulation Line	0.01% plus 1.0 mV for 105-132 Vac variations (LPD-400A/LQD class)
Voltage Regulation Load	0.01% plus 1.0 mV no load to full load
Ripple RMS	500 uVrms class LPD-400A with either polarity grounded
Ripple Peak	1.5 mV peak-to-peak class LPD-400A
Program Resistor	200 ohm per volt nominal
Program Voltage	one-to-one
Mode	constant voltage / constant current automatic crossover
AC Input	105-132 Vac, 47-440 Hz (ratings for 57-63 Hz; 10% current derate 47-53 Hz class)
Meters	digital LED volt and amp displays per channel (LQD)
Control IC	Lambda FBT-00-128
Display ADC	ICL7107 class (FBT-00-074) with 7-segment LEDs (FBT-00-075)
Display Supplies	isolated plus/minus 5 V from extra transformer winding
Analog Counterpart	LPD-422A-FM is the analog-meter dual 0-40 V 1.0 A row
Ambient	0 to 60 C continuous duty with corresponding current columns
Connections	rear barrier / front binding posts on laboratory chassis Notes Specs from Lambda LQD model table (LQD-422 dual 0-40 V at 1.0 A) and LPD-400A regulation paragraphs that share the 40 V 1 A electrical row.

PARAMETER

VALUE

Confirm digital LQD vs analog LPD package and ambient current column.

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	
Specifications	
PARAMETER	VALUE
Model	LQD-422
Manufacturer	Lambda Electronics (Veeco/Lambda; TDK-Lambda successor)
Instrument Type	Dual Output Linear DC Power Supply
Specifications	
PARAMETER	VALUE
Series	LQD
Alias	LQD-422; LQD422; Lambda LQD-422
Channel Count	2 independent regulated outputs
Specifications	
PARAMETER	VALUE
Voltage Range Each	0 to 40 Vdc
Current At 30 C	1.0 A per channel
Family LQD421	2 channels, 0 to 20 V at 1.7 A
Specifications	
PARAMETER	VALUE
Family LQD423	2 channels, 0 to 60 V at 0.7 A
Family LQD424	2 channels, 0 to 120 V at 0.38 A
Family LQD425	2 channels, 0 to 250 V at 0.13 A
Specifications	
PARAMETER	VALUE
Voltage Regulation Line	0.01% plus 1.0 mV for 105-132 Vac variations (LPD-400A/LQD class)
Voltage Regulation Load	0.01% plus 1.0 mV no load to full load
Ripple RMS	500 uVrms class LPD-400A with either polarity grounded

Specifications

PARAMETER	VALUE
Ripple Peak	1.5 mV peak-to-peak class LPD-400A
Program Resistor	200 ohm per volt nominal
Program Voltage	one-to-one

Specifications

PARAMETER	VALUE
Mode	constant voltage / constant current automatic crossover
AC Input	105-132 Vac, 47-440 Hz (ratings for 57-63 Hz; 10% current derate 47-53 Hz class)
Meters	digital LED volt and amp displays per channel (LQD)

Specifications

PARAMETER	VALUE
Control IC	Lambda FBT-00-128
Display ADC	ICL7107 class (FBT-00-074) with 7-segment LEDs (FBT-00-075)
Display Supplies	isolated plus/minus 5 V from extra transformer winding

Specifications

PARAMETER	VALUE
Analog Counterpart	LPD-422A-FM is the analog-meter dual 0-40 V 1.0 A row
Ambient	0 to 60 C continuous duty with corresponding current columns
Connections	rear barrier / front binding posts on laboratory chassis

Notes

Specs from Lambda LQD model table (LQD-422 dual 0-40 V at 1.0 A) and LPD-400A regulation paragraphs that share the 40 V 1 A electrical row. Confirm digital LQD vs analog LPD package and ambient current column.

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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NIST-traceable calibration · SAM registered ·
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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.