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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI LPD421A

Lambda LPD421A Dual Output Linear Lab Power Supply 0-20 V The Lambda LPD421A is an LPD-400A series dual-output linear regulated laboratory DC power supply. Each channel is 0 to 20 Vdc with temperature-derated current (Tablelclass: 1.7 A at 30 C). Constant-voltage and constant-current modes crossover automatically. AC input is 105-132 Vac at 47-440 Hz (full ratings 57-63 Hz). Remote programming is 200 ohm/V or one-to-one voltage. FM suffix denotes the metered front-panel laboratory package. Dual-rail lab benches; tracking or independent analog rails; ATE fixture DC; replacement of LPD-400A family channels. The Lambda LPD421A is an LPD-400A series dual-output linear regulated laboratory DC power supply. Each channel is 0 to 20 Vdc with temperature-derated current (Tablelclass: 1.7 A at 30 C). Constant-voltage and constant-current modes crossover automatically. AC input is 105-132 Vac at 47-440 Hz (full ratings 57-63 Hz). Remote programming is 200 ohm/V or one-to-one voltage. FM suffix denotes the metered front-panel laboratory package. Dual-rail lab benches; tracking or independent analog rails; ATE fixture DC; replacement of LPD-400A family channels.

**MODEL****Lambda / TDK
LPD421A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****LPD421A****LISTING**<https://aumictechlabs.com/products/lpd421a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Lambda/TDK LPD421A-FM is a dual-output, adjustable regulated DC power supply engineered for laboratory, educational, and industrial applications. Each independent channel delivers 0–20V DC at 0–1.7A, with a maximum power output of 68W per channel. Exceptionally low ripple (500 μ Vrms) and tight line/load regulation ($\leq 0.01\% + 1\text{mV}$) ensure stable power for precision testing, circuit development, prototyping, and repair work. Both outputs can operate independently or be configured in series for doubled voltage or parallel for doubled current (3.4A maximum). Comprehensive front-panel meters monitor voltage and current simultaneously for each channel, while coarse and fine adjustment controls provide precise output tuning. Built-in overload protection, automatic current limiting, and thermostat-based thermal shutdown safeguard equipment and circuits. Convection cooling eliminates external heat sinks.

Technical Specifications

Output Channels: Dual independent outputs
Voltage Range: 0–20V DC per channel
Current Range: 0–1.7A per channel
Maximum Power: 68W per channel
Line Regulation: $\leq 0.01\% + 1\text{mV}$
Load Regulation: $\leq 0.01\% + 1\text{mV}$
Ripple and Noise: 500 μ Vrms
Input Voltage: 115V/230V AC switchable (105–132 VAC, 47–440 Hz)
Series/Parallel Operation: Up to 40V or 3.4A maximum
Fuse Protection: 3A, 3AG SLO-BLO
Dimensions: 5-3/16" W $\times$ 8-3/8" H $\times$ 10-13/32" D

Key Features

Independent voltage and current adjustment per channel
Series/parallel operation with auto master-slave tracking capability
Adjustable electronic current limiting set to 105% of rated current
No overshoot on turn-on, turn-off, or power failure
Automatic reset thermostat for overtemperature protection
Separate voltmeter and ammeter per output channel
Rear terminal block and front five-way binding posts
Convection cooling; bench-top form factor

Typical Applications

Research and development circuit testing
Educational laboratory experiments and demonstrations
Production assembly line testing and quality assurance
Device prototyping and repair work

Compatibility & Integration

Alternative AC input versions available for 205–265 VAC, 50 Hz or 187–242 VAC, 50 Hz operation.

Features & description

From manufacturer datasheet

Features

- Two independent 0 to 20 V channels

LPD421A Characteristics / Specifications

PARAMETER	VALUE
Model	LPD421A
Manufacturer	Lambda Electronics (Veeco/Lambda; TDK-Lambda successor)
Instrument Type	Dual Output Linear DC Power Supply
Series	LPD-400A
Alias	LPD421A; Lambda LPD421A
Channel Count	2 independent regulated outputs
Voltage Range Each	0 to 20 Vdc
Current At 30 C	1.7 A per channel
Current At 40 C	1.5 A per channel
Current At 50 C	1.3 A per channel
Current At 60 C	0.9 A per channel
Voltage Regulation Line	0.01% plus 1.0 mV for 105-132 Vac variations
Voltage Regulation Load	0.01% plus 1.0 mV no load to full load
Ripple RMS	500 uVrms with either polarity grounded (1 mV class LPD-425FM)
Ripple Peak	1.5 mV peak-to-peak (LPD-425 higher class on some sheets)
Temperature Coefficient	less than (0.015% + 0.5 mV)/C class LPD-400A
Program Resistor	200 ohm per volt nominal
Program Voltage	one-to-one
Current Regulation Line	5 mA class for 105-132 Vac (LPD-400A current table)
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)
Input Power	175 W (LPD-400A input-power table, 30 C / 132 Vac class)
Ambient	0 to 60 C continuous duty with corresponding current columns
Meters	analog volt and amp meters per channel on FM packages
Connections	rear barrier / front binding posts on FM laboratory chassis

PARAMETER	VALUE
Family Table	LPD-421 0-20 V 1.7 A; LPD-422 0-40 V 1.0 A; LPD-423 0-60 V 0.7 A; LPD-424 0-120 V 0.38 A; LPD-425 0-250 V 0.13 A (30 C) Notes

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.

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Input Power	175 W (LPD-400A input-power table, 30 C / 132 Vac class)
Ambient	0 to 60 C continuous duty with corresponding current columns
Meters	analog volt and amp meters per channel on FM packages

Connections: rear barrier / front binding posts on FM laboratory chassis

Family Table: LPD-421 0-20 V 1.7 A; LPD-422 0-40 V 1.0 A; LPD-423 0-60 V 0.7 A; LPD-424 0-120 V 0.38 A; LPD-425 0-250 V 0.13 A (30 C)

Notes

Specs from Lambda LPD-400A / LPD-421AFM: dual 0-20 V at 1.7 A (30 C). Non-FM chassis shares the same electrical table. Confirm meters/package.

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.