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Data Sheet

August 13, 2026

LAMBDA / TDK / EMI

Lambda / TDK / EMI LPD421A-FM

Lambda / TDK / EMI DC Power Supplies. Voltage: 0–20 VDC per output, Current: up to 3.4 A, Voltage: 105–132 VAC.

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Lambda/TKD/EMI LPD421A-FM is a dual-output regulated DC power supply engineered for laboratory and rack-mounted applications requiring stable, independent voltage control. Each output adjusts from 0 to 20 VDC independently, with series/parallel configurations supporting 0–40 VDC and current expansion to 3.4 A. The supply delivers exceptional line and load regulation of 0.01% + 1 mV, output ripple of 500 μ V RMS (1.5 mV pk-pk), and temperature stability of (0.015% + 0.5 mV)/°C across a 0°C to +60°C continuous duty range. Technical Specifications Output Ratings Voltage: 0–20 VDC per output; 0–40 VDC in series configuration Current per output: 1.7 A @ 30°C; 1.5 A @ 40°C; 1.3 A @ 50°C; 1.0 A @ 60°C Series/parallel current: up to 3.4 A Line/load regulation: 0.01% + 1 mV Output ripple: 500 μ V RMS / 1.5 mV pk-pk Temperature coefficient: (0.015% + 0.5 mV)/°C Input Power AC voltage: 105–132 VAC, 187–242 VAC, or 205–265 VAC (configuration dependent) Frequency: 47–440 Hz (derate 10% for 47–53 Hz operation) Physical & Thermal Dimensions: 5-3/16" H × 8-3/8" W × 10-5/8" D Weight: 13 lbs net / 16 lbs shipping Cooling: Convection design; no blowers or external heat sinks required Panel finish: Tan glass-

filled, flame-retardant nylon

Key Features

- Five-way binding posts on front panel for each output
- Remote sensing provision to compensate for lead resistance effects
- Remote programmable voltage control
- Series/parallel and auto series/parallel (master-slave) tracking capability
- Heavy-duty rear terminal block for permanent connections

Compatibility & Integration

The LPD421A-FM accommodates standard 19" rack mounting via optional Lambda rack adapters (LRA-1, LRA-2). External overvoltage protection modules (LHOV-4, LHOV-5, LHOV-6) are available for enhanced system protection. Dual outputs support independent or linked operation for voltage multiplication (series) or current expansion (parallel) up to 3.4 A total.

Features & description

From manufacturer datasheet

Features

- Two independent 0 to 20 V channels

LPD421AFM Characteristics / Specifications

PARAMETER	VALUE
Model	LPD421A-FM
Manufacturer	Lambda Electronics (Veeco/Lambda; TDK-Lambda successor)
Instrument Type	Dual Output Linear DC Power Supply
Series	LPD-400A
Alias	LPD421A-FM; Lambda LPD421A-FM
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 class (LPD-421AFM table 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

PARAMETER

VALUE

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

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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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 and LPD-421A-FM listings: 0-20 V, 1.7/1.5/1.3/0.9 A at 30/40/50/60 C. Input power table lists 175 W for LPD-421AFM.

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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<https://aumictechlabs.com>

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.