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Data Sheet

August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI LPD423A-FM

The TDK-Lambda LPD423A-FM is a dual-output regulated DC power supply engineered for precision laboratory and industrial applications requiring independent voltage and current control. Front-panel meters provide simultaneous monitoring of voltage and current across both outputs, enabling real-time feedback during testing and characterization. Each output operates independently with continuously adjustable polarity selection and electronic current limiting, making this instrument suitable for benchtop configurations and integrated test systems. Typical Applications Benchtop circuit development, precision device characterization, component validation, and multi-rail test setups where independent voltage/current metering and polarity flexibility are essential. Compatibility & Integration Series and parallel connection schemes enable voltage stacking and current multiplication without external components.

**MODEL****Lambda / TDK
LPD423A-FM****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****LPD423A-FM****LISTING**<https://aumictechlabs.com/products/lpd423a-fm-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The TDK-Lambda LPD423A-FM is a dual-output regulated DC power supply engineered for precision laboratory and industrial applications requiring independent voltage and current control. Front-panel meters provide simultaneous monitoring of voltage and current across both outputs, enabling real-time feedback during testing and characterization. Each output operates independently with continuously adjustable polarity selection and electronic current limiting,

making this instrument suitable for benchtop configurations and integrated test systems. Technical Specifications Output Configuration: Dual independent DC outputs, each selectable for positive or negative polarity. Individual outputs: 0 to ± 60 VDC. Series operation extends voltage output to 120 VDC; parallel operation delivers up to 1.4 A combined current. Current Performance: Temperature-dependent ratings apply to series operation - 0.7 A at 30°C, 0.6 A at 40°C, 0.5 A at 50°C, and 0.4 A at 60°C. Parallel operation supports 1.4 A maximum. Regulation & Stability: Line and load regulation measure less than 0.2% or 5 mA (whichever is greater). RMS ripple: 500 μ V. Temperature coefficient: (0.015% + 0.5 mV)/°C. Input Power: AC input acceptance spans 105–132 VAC, 187–242 VAC, and 205–265 VAC operating windows. Frequency range: 47–440 Hz. Key Features Coarse and fine adjustment controls for voltage and current on each output Built-in voltmeter and ammeter (-FM designation) Adjustable automatic electronic current limiting (settable to 105% of rated current) Thermal protection with automatic reset; internal fuse backup Short-circuit proof operation via continuously adjustable current limiting Zero overshoot during turn-on, turn-off, or power failure transients Remote sensing provision to compensate for lead resistance losses Convection cooling - no blowers or external heat sinks required Typical Applications Benchtop circuit development, precision device characterization, component validation, and multi-rail test setups where independent voltage/current metering and polarity flexibility are essential. Compatibility & Integration Series and parallel connection schemes enable voltage stacking and current multiplication without external circuitry. Remote sensing option integrates with distributed test architectures. Universal input voltage coverage supports global laboratory deployment.

Features & description

From manufacturer datasheet

Features

- Two independent 0 to 60 V channels

LPD423AFM Characteristics / Specifications

PARAMETER	VALUE
Model	LPD423A-FM
Manufacturer	Lambda Electronics (Veeco/Lambda; TDK-Lambda successor)
Instrument Type	Dual Output Linear DC Power Supply
Series	LPD-400A
Alias	LPD423A-FM; Lambda LPD423A-FM
Channel Count	2 independent regulated outputs
Voltage Range Each	0 to 60 Vdc
Current At 30 C	0.7 A per channel
Current At 40 C	see LPD-400A TablelderatingAper channel
Current At 50 C	see LPD-400A TablelderatingAper channel
Current At 60 C	see LPD-400A TablelderatingAper 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	180 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 Specs from Lambda LPD-400A manual and LPD-423AFM row (0-60 V, 0.7 A at 30 C, dual). FM is the laboratory metered package. Confirm 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	
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Input Power	180 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 manual and LPD-423AFM row (0-60 V, 0.7 A at 30 C, dual). FM is the laboratory metered package. Confirm 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.